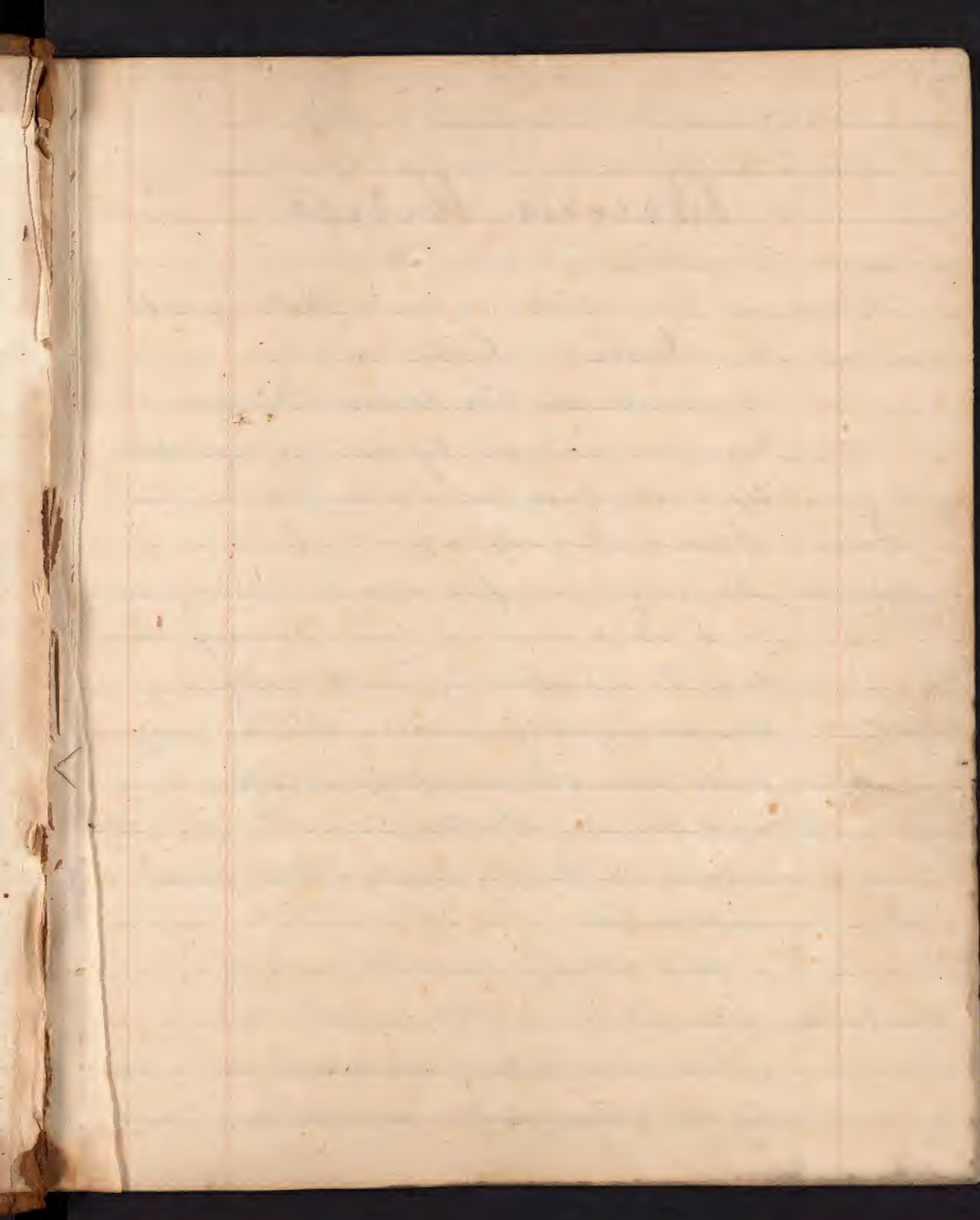




MSS 2/0059-01

Acc 1987-013 (4)





# Materia Medica.

Astringents.

## Galla. Galls.

Excrescences on the shrub *Quercus Infectoria*, caused by an egg deposited by a small insect.

Source. Syria & Asia Minor

Appearance. They vary in size from a pea to a hickory nut. are black & and the smoothness of their surface is broken by small pimples. One variety is greenish or bluish gray, from these the insect is not gone out, and they are the better. while the other variety is larger and has a faded appearance.

Active Principles. Tannic & Gallic Acids & probably a bitter principle

Incompatibles. Strong Sulph. & Mur. Acids. Soluble salts of Iron. Tartar emetic. Carbonates of Pot. & Ammonia. Sol. Salts of Lead Manganese copper. Nitrites



Med.  
Prop.

of Silver & Mercury. & the salts of the organic  
alkalies. also Sol. of Starch, Albumen & Gelatin.

Strongly astringent & slightly tonic, used  
sometimes internally to check secretion:  
but generally ~~Externally~~<sup>Ex</sup> in the form  
of infusion or ointment, for purposes  
numerous but evident.

Dose gr.  $\text{X}$  to  $\text{XX}$ .

The Ev. is used more for a chemical test  
but may be given in doses from  $\text{ʒi}$  to  $\text{ʒiii}$

### Acidum Tannicum. Tannin.

Of this there <sup>are</sup> different varieties obtained  
from different sources, but all having  
the same essential properties. That from  
galls precipitates the salts of Iron of a bluish  
black color. the others a greenish black.  
It is obtained by the action of ether with  
a little water. Two layers form by the  
standing of the solution, the top is poured  
off, and the other, evaporated yields tannin.

Incompatibles. Same as galls.

Chem. Changes. On exposure in solution to the air it changes into gallic acid with the evolution of Carbonic Acid.

Appearance. A light, spongy, yellowish, mass.

Uses. The most powerful astringent known. it proves speedily efficacious in most cases to which it can be directly applied. but when it has to pass through the circulation it loses much of its power, probably by being converted into gallic acid. It is often contra-indicated on account of its irritative properties, wh. may sometimes be corrected by opium or acetate of lead, or both

Dose gr. II to X. wh. if in solid form should be followed by water.



*Acidum Gallicum. Gallic Acid.*

Formed by the action~~xx~~ of air and water or of Sulph. Acid on tannin.

Form. White acicular crystals.

Uses. This is but a weak brother of tannin and, probably, the only times at wh. it can be advantageously substituted is when the latter is too irritating or when the disease is to be reached th. the circulation

Dose. gr. V to XX.

*Quercus Alba. White Oak*

" *tinctoria* Blk. "

The bark of various species of Oak.

Ac. Prin. Besides gallic & tannic acids there is a pec. prin. called Quercin & in Blk. oak, also Quercitrin.

Coarsely powd. Blk oak bark is called Quercitron.

Uses. Sometimes used internally for Dysentery, Intermittent fever and a few other

diseases, but more frequently in the form of a lotion for Cholera Inf. Interm. fever, piles, prolapsus ani, flabby, indolent ulcers, &c.

Dose.

℥ss to ʒi. 3 or 4 times a day.

## KINO.

The inspissated juices of a number of trees.

Varieties. East Indian, West Indian & South American

All having the same med. prop. & reddish or brownish blk. color, the first being in small shining fragments, the others in less shining masses, easily broken.

Med. prop.

Kino is a very pure astringent and generally acceptable to the stomach, but, on account of kino-tannic acid becoming inert thr. the agency of air & water, is of little use through the circulation. It acts at times powerfully as a styptic, and <sup>a solution</sup> is recommended as a gargle in angina and injection in Leucorrhoea and obstinate Gon. but its stains are an objection.

℞ Kino-T. ac. is made more sol. by the alkalis



while its astr. is destroyed in other respects its  
incompatibles are the same.

Dose. of the powd. gr. V to XXX.

" " Gr. ʒ i or ii

### Chatechu.

An Ext. from the inner wood of *Acacia*  
*Chatechu*. It comes in irregular pieces,  
with a rusty outside and a reddish-brown  
fracture.

Constit. Tannic & Chatechuic acids.

Appt. The same as those of Kino, on acct. of  
staining less better for ext. use.

It peice bet. to dissolve in the mouth good  
for Angina.

Gambir is an ext. from the leaves  
of *Nauclea Gambir*. its med. prop.  
are identical with those of Ch.

Dose. of pulv. gr. X to XX

" " Gr. ʒ pto ʒ iii

*Krameria*. *Rhacoma*.

The small roots of *K. Triandria*, these are long and from the size of a quill to 2 in. in diameter, dull on outside reddish within.

etc. *prin* Tannic Acid alk. causes a grayish precip. with the salts of the sesquioxide of Iron. + *Krameria* acid.

*Uses*. Same as *Kino*. An injection in fissure of Anus has been found very beneficial. has also been used in fiss. of Nipples.

*Dose*.  
pulv.  $\mathfrak{z}$  i to  $\mathfrak{z}$  i  
In.  $\mathfrak{z}$  i to  $\mathfrak{t}$   
Lyn.  $\mathfrak{z}$  ss.

*Haematoxylon*. Logwood.

Inner wood of *H. campeachianum*.

*Prop*. Hard, heavy, red or yellow turning blk.

*Ac. prin*. Tannic Acid and a coloring matter  
*Haematoxylon*.

*App*. A mild, nonirritating, astringent rec.



applicable to Diarrh. Dyscr. &c.

Dose. Decoct. made by boiling an oz. in 0*℥* i  
of water to 0*℥* i 3*℥* ii or *℥* iii  
Ext. gr. X to XX.

*Geranium*. Cranesbill.

The rhizome of *G. maculatum*.

An efficient, pure, astringent,  
generally applicable, but especially  
so for infants or delicate persons.  
It is said to contain Gallic acid, and  
if so will act thr. the circulation

Dose. Pulv. gr. X to XX  
Decoct. of 3*℥* i to 0*℥* i 3*℥* i to *℥* ii

*Rubus Villosus*, Blk. berry  
" *Idaeus* Dew "

The root of these well known briars.

Prop. Well known.

Med prop. Tonic & astring.

App. Most used in bowel complaints &c.  
Very good if there is no gen. fever, but

if so applicable.

The *Spiced Syre* is an elegant mode of administration. Dose two spoonfuls. Dose of Decod. (31 to 01) wine glass full.

*Uva Ursi*. Bearberry.  
The leaves of *Arctostaphylos Uva Ursi*.

Ac. Prun. Tannic & Gallic ac. a bitter extractive matter & a pec. prin. called Uricin. Diuretic in the dose of a gr.

Effects. Astringent & tonic, having a peculiar influence over the urinary organs.

It was formerly employed for nearly all diseases of said organs; but latterly has fallen into disuse.

On acct. of irritative prop. it should not be used in acute inflammation, but may be with advantage in chronic infl. of kidneys & bladder. It is recommended in *Spermatorrhoea*, and by sympathy.



is said to exert an influence over the  
sphincter in cases of noct. incontinence,  
but this is uncertain.

Dose. Decoct. (3i to Oj) 3i or ii. 3 or 4 times a day.  
Ext. gr. V to XV.

### *Chimaphila Pipsissewa.*

The leaves of *C. Umbellata*

At. Pur. Tanno ac. & a better extractive wh.  
is probably a complex substance.

Effects. Astringent, tonic, & slightly Diuretic.

App. It was used by the Indians in Scrophula  
Rheumatism & various urinary diseases  
from which it has been noted to  
relieve. In dropsy it may be useful  
combined with stronger diuretics.  
In scrophulous diseases it has been  
found to rank ably after Cod. L. oil  
Iodine & Iron.

Admin. Decoct. (3i to Oj) may be given in quantity of  
Oj a day. Dose of Ext. gr. X to XX. A beer made from  
the leaves may be used as a steady drink in Scrophula

Mineral Astringents

Alumen. Alcan.

Alum. is a double salt. Common Alum is a sulphate of Alumina & Potassa.

Form. It is in octohedral or cubic crystals, but as generally seen formed into an irregular crystalline mass. Slightly efflorescent.

Comp. 1 equivalent of Al. Sulph. 1 of Pot. Sulph. & 24 of water. When heated it loses its water of crystallization and is called burnt or dried alum.

Solvents. It is soluble in 18 parts of cold water and  $\frac{1}{4}$  its weight of warm; is insoluble in pure alcohol.

Incomp. Alum forms precipitates with the Alkalies & their carbonates, Pot. Tart. Sodas Phos. Ac & Subac. of lead. An excess of alkali dissolves their precip. With sol. of albumen & Gelatin & coagulates milk.



Med. App.

When given so as not to irritate alum acts as a pure astringent, and may be employed in diarrhoea & dysentery when astr. are indicated. but given in large doses or applied to delicate surfaces it irritates & inflames. In comparison with its effects on the stomach it acts more through the circulation than the veg. astr. therefore it is useful in menorrhagia bloody urine & haematuria & probably in haemoptysis. Its most useful inward app. is as an antidote for lead poisoning, it may also be used for neuralgic pains in the stom. resembling colica serena.

Its greatest use is locally for checking morbid discharge, and may be applied either in a powder or solution, if the latter is desired strong it must be hot. it is also used for checking morbid secretion, in leucorrhoea, gon. gleet profuse sweating, or too great discharges

Dose.

from ulcers &c. beside wh. it has  
various other rational applications  
gr. V to XV in pulv. or sol. in either  
way it is well to add an aromatic.

### Plumbum. Lead.

Pure lead is said to produce none  
other than mechanical eff. on the  
system, until it is converted into  
an oxide or salt, wh. change rapidly  
takes place in the stomach.

Lead therapeutically is astr. & sedative.  
In quantity it irritates & long cont.  
produces its poisonous effects, some  
of its prop. immediately.

Pois. Eff.

Dryness of mouth & fauces, diminished  
urine & stools small, hard & light,  
also mental depression. The gums &  
upper parts of teeth turn blue or slate col.

Lead Colic.

Cramps about umbilicus, desire to  
go to stool, but fruitlessly, with tremors  
& straining & a general feeling of restlessness.



Lead Palsy.

often visible on the countenance.

Generally a sequel of lead colic.

Its first app. is nearly always in the hand & forearm. & its most distinguishing feature the falling hand.

Its most serious eff. are on the brain. these generally follow the others but sometimes come without warning.

Antidotes

Spueae. Mag. sulph. Alum. opium.  
pot. iodid. à la rationelle internally.  
& Sulphuret of Potassium dissolved  
in hot water for a wash. Propos.  $\frac{3}{4}$  ℥ss & XXX

### Plumbi Acetas. Acetate of Lead.

Prepared by the action of vinegar on  
rusty plate of lead or on the protoxide.

Comp.

Requis. etc. Acet. 1. Plumbi Protox. 3 water.

App.

White, efflorescent, acicular, crystals

Taste

Sweetish astr.

Incomp.

It yields precipitates with, sulph.

Phosphoric, Citric, Tartaric, Meconic,

& Carbonic, acids & their sol. salts.

with Mus. & Hydrochloric acids & the  
sol. Chlorides & Iodides. with Hydro-  
sulph. ac. & the sol Sulphurets.

With sol. of Chondrin & Albumen, &  
certain mucilages, am. wh. are Quin-  
sed & Slippery elm.

All except those cont. Sulphur may  
be given in connection with the A  
in other forms than sol.

Med prop. Astring. & sedative.

Uses, Int. Used in diarrh. dysent. advantageously  
in hemorrhages of lungs. kidneys & ~~in~~  
uterus. in yellow fever after the first  
long paroxysm, aneurisms of aorta,  
enlarg. of heart &c

Local. In inflammation of the skin & sub-  
cutaneous tissue, ophthalmia, copious  
discharges from nose, Leucorrhoea  
gonorrhoea, dysentery in rectum &c

Dose. gr. i to ℥i every 1, 2 or 3 hrs in acute or  
3 or 4 times a day in chronic cases



Liq. Plumbi Subacet. Goulard's Extract.  
Prepared by boiling together sol. Plum. etc.  
& litharge. Specific grav. 1.267

Comp. 1 eg. etc. Acet. & 2 of Pl. Protox.

Incomp. Same as Pl. etc. with addition of etheric,  
flaxseed, & saffron mucilages.

App. Never used internally, but applied  
ext. as an astr. sed. anodyne  
or haemostatic. in a diluted  
state.

Liq. Pl. Subacet. Dil.

Strength.  $\mathfrak{z}$  iſs to  $\mathcal{O}$  i. which may be increased  
to  $\mathfrak{z}$  i sometimes with advantage.

Cerat. Saponis.

Made by boiling together Soap, olive  
oil, & Liq. Pl. Sub.

A mild sedative app.

Plumbi. Carb. White Lead.  
Formed by passing etc. Carb. through  
Goulard's Ext.

App. A white powder, without taste

or small. It is insol. in water  
not cont. Ac. Carb. Sol. in Acetic  
blkd. by Ac. Hydrosulph. converted  
into the yellow precip. by heat & by  
heat with carbon into metallic lead.  
Uses. never used internally but may  
be app. outwardly same as other  
prep. mixed with Ol line to  
consistence of cream is recommended  
for burns.

## Plumbi Nitras.

Made by the action of Acetic  
on litharge.

Prop. In 4 or 8 sided white, nearly  
opaque crystals, is sol. in  
water & alcohol. forms a yellow  
precip with Pot. Sod. & a blk with  
hydrosulphate of ammonia.  
Its prop. of decomposing Ac. Hydrogen.  
renders it val. as a deodorizer.  
it may be used for this in sol of 3i to ʒi.  
This constitutes Sedgely's Sol.



In strength of from 3 to 10 grains  
to the oz. it is a good app. in foetid  
discharges from nose, ears, urethra,  
uterus, vagina. &c. combining  
the properties of sedative, astringent  
& disinfectant.

Dose gr.  $\frac{1}{4}$  to gr. i. but little used internally.

### *Plumbi Iodidum.*

Formed by the reaction of acetate on  
nitrate of lead & iodide of potass.  
Is a yellow heavy powder, sol. in  
200 parts of boiling & 200 of cold water.  
Has little, in its action, to dist. it from  
the other prep. of lead.

Dose gr. i to  $\text{℥}\text{ss}$  seldom given internally.

### *Plumbi Oxidum Semivitreum* *Litharge*

Yellow - reddish scales formed  
by the action of oxygen on melted  
lead. Its action & uses are much

the same as the action & uses of  
the salts of lead.

It is used in making,  
Emp. Plumbi. Diachylon,  
which is an excellent healing  
& sedative plaster.

Emp. Resinae, the adhesive  
plaster of the shops. &

Emp. Saponis, a very mild  
healing plaster.

*Ceratum Plumbi Subacet.*  
Goulards Cerate.

Consists of Goulards Ess. wax,  
ol. olive, & a little camphor. It is  
an excellent app. in inflammation,  
ulcers, chilblains. &c. & probably  
the best app. to blisters which  
are not inclined to heal.



# Tonics.

## Oleum Morrhuae.

cod Liver Oil

The oil obtained from the livers of *Gadus Morrhua*, either by exposing to the sun, boiling or expressing.

Sens. Prop.

There are two varieties the light & dark or pure & impure.

Comp.

The smell is that of boot leather. It contains a free prin. Glycerin, various biliary prin. with iodine, bromine, thion & magasin.

Uses.

It is, with benefit, in nearly all diseases of a scrofulous nature or arising from a scrof. condition of the blood.

Dose.

℥ ss to ℥ i, 3 times a day.

### Simple Bitters.

The tonic action of these is exercised over the digestive organs, increasing the appetite and restoring a healthy tone to the stomach, used in defective appetite & nutrition, dyspepsia, etc.

### Quassia.

The wood of Quassia excelsa a native of the West Indies.

Ac. prin. Quassin.

Prop. The strongest & purest of the simple bitters.

Prep. Pulv. Dose gr. XX to XXX.

Inf. " ℥ii

Ext. " gr ii to V

Tr. " ℥i to ii

Simaruba, another species of Quassia.



## Gentiana. Gentian.

The root of *Gentiana lutea* & other species growing in Northern Europe.

Ac. prin. Gentianin. gentinic acid or gentisin  
& other unimp. subst.

Action Somewhat more excitant than  
it follows, & should be used therefore  
with a little more care.

Prep.	Pulv.	Dose.	℥ss to i
	Ext.	"	gr. x to xxx
	Infus.	"	℥i to ℥ii
	Vin.	"	℥ss to i
	Tr. Comp.	"	℥i to ℥ii

Botanically related & closely medicinally  
allied to Gentian, are *Chiretta* or  
*Chirayta*, *Sabbatia* or Am. Centaury,  
*Centaureum* or European Centaury,  
& *Thlasia* or Am. *Calumbo*.

## Columbo.

The root of *Cocculus palmarum* a vine growing in the thickets of Mozambique.

Const. Columbin, berberin. Starch, albumen & a little volatile oil.

Med. prop. Columbo is less excitant than the other bitters & for this reason is better fitted for weak stomach or when inflammation exists, or is likely to.

Prep. Pulv. Dose gr. x to xxx  
Inf. " 3 ft  
Tr. " ʒi to ʒv.

Coptis, Goldthread, is a native of our Northern states, and is a good substitute for Quassia. Dose, gr. x to xxx.

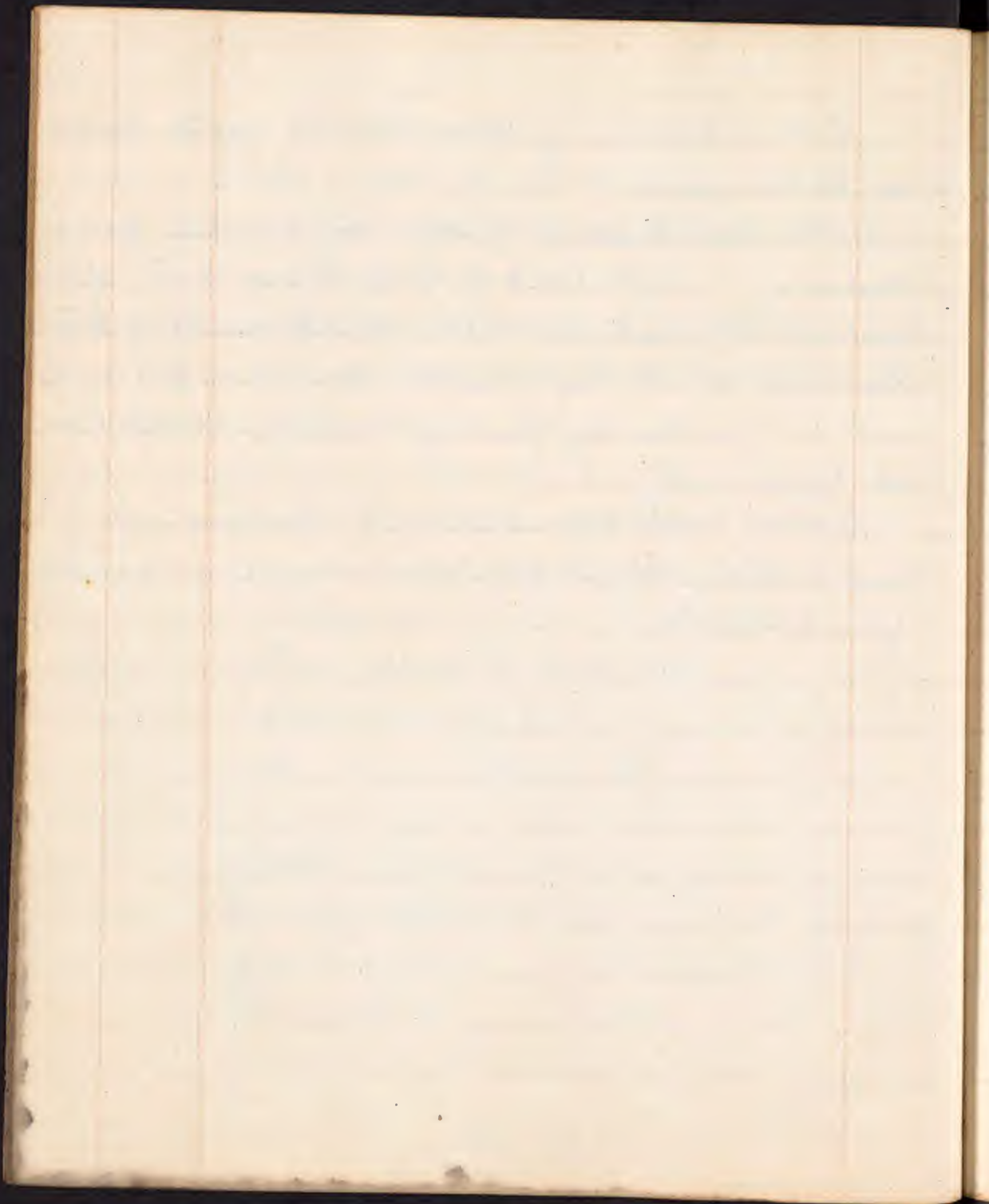
Xanthoxylza, Yellow Root, is native of Southern & Western States, yields its virtues to water & is an official tonic. Dose, XX to XXX grs.



Conditions of Wood Sale for Dr. Rich=  
and H. Townsend

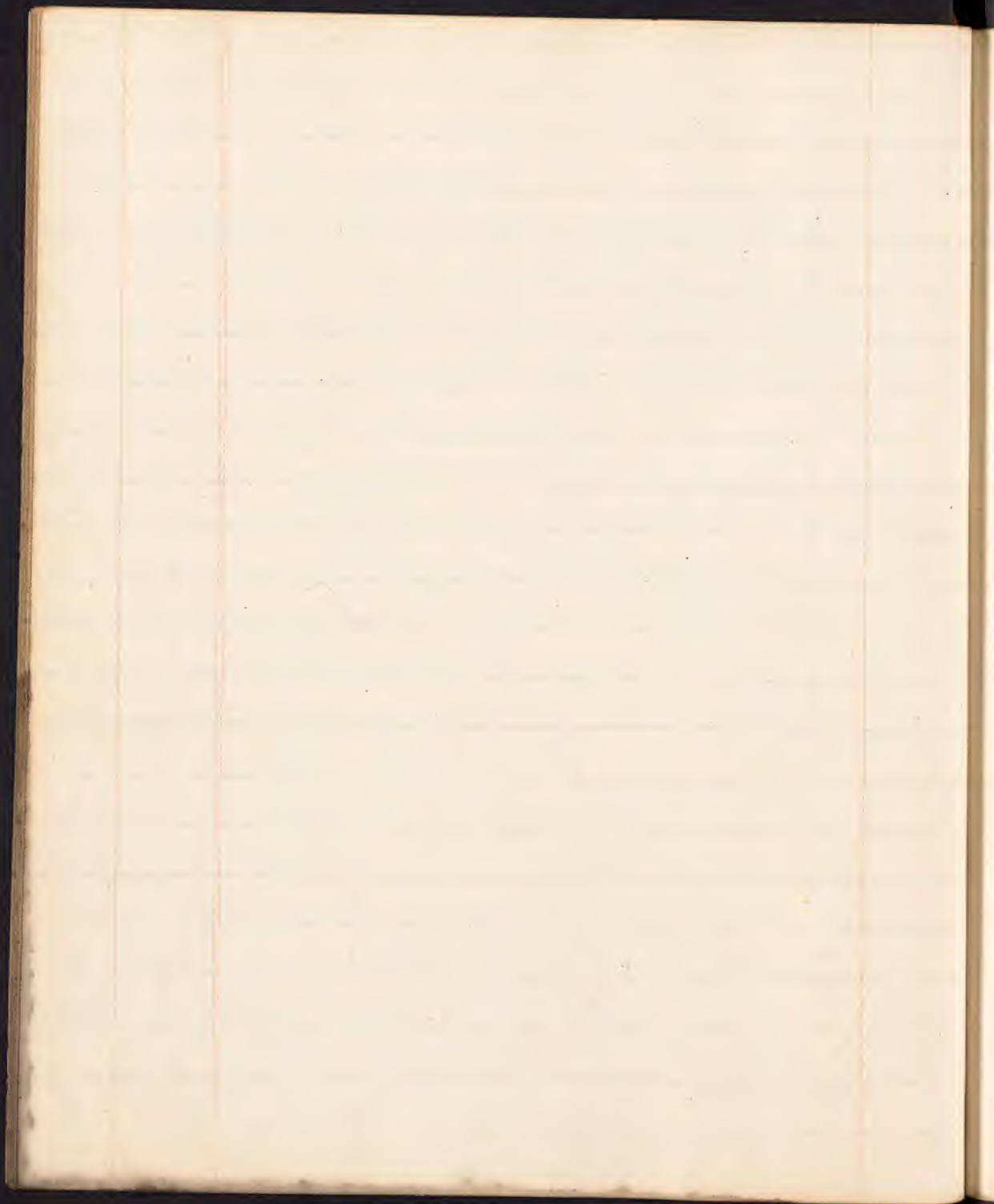
1<sup>st</sup> The highest bidder to be the pur=  
=chaser, All bills of less than ten dol=  
lars to be paid in cash, on all bills of ten  
dollars and upwards Six months credit  
will be given by giving note with approv=  
=ed Security,

Wood not considered delivered  
until the above conditions are com=  
-plied with



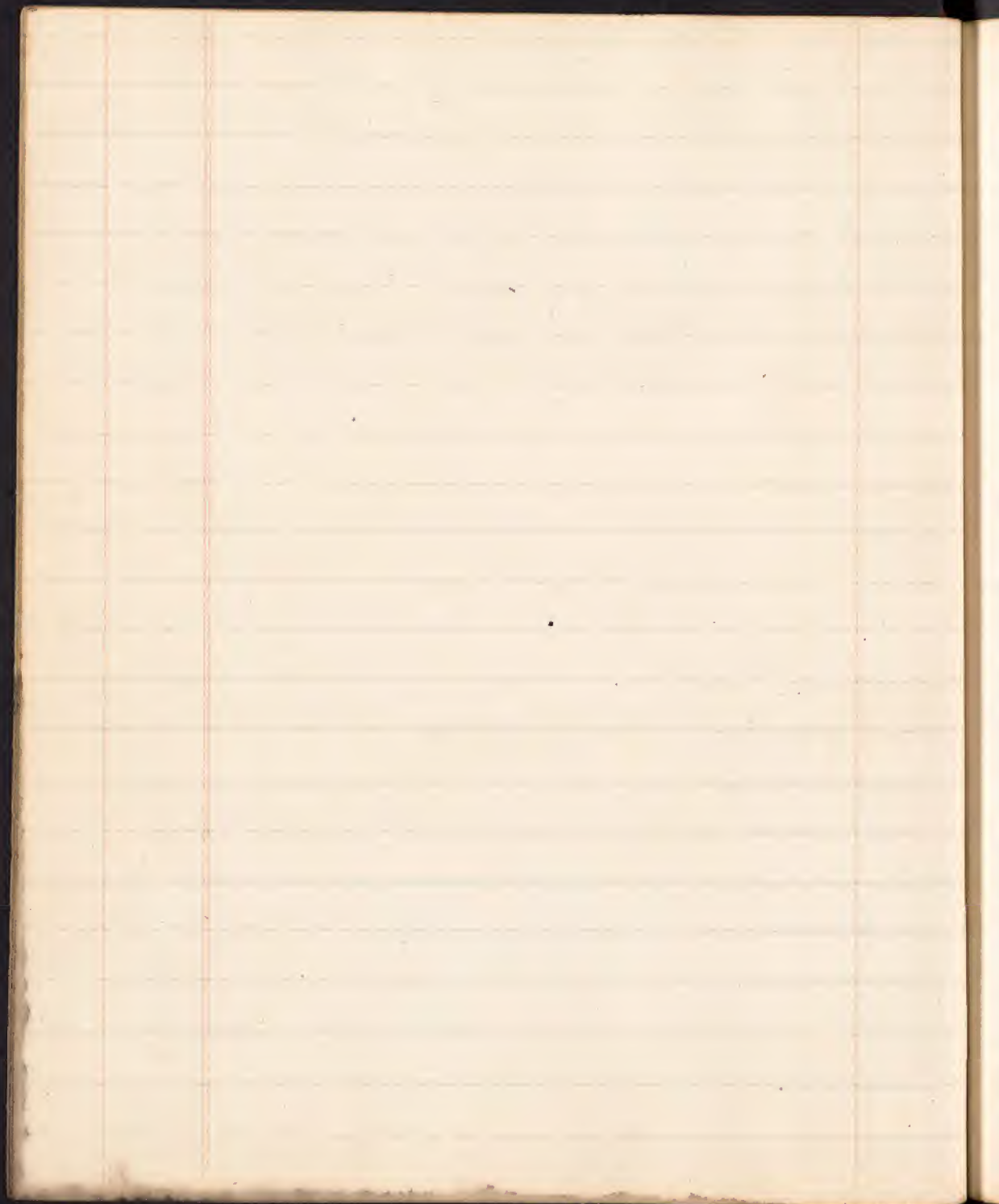
















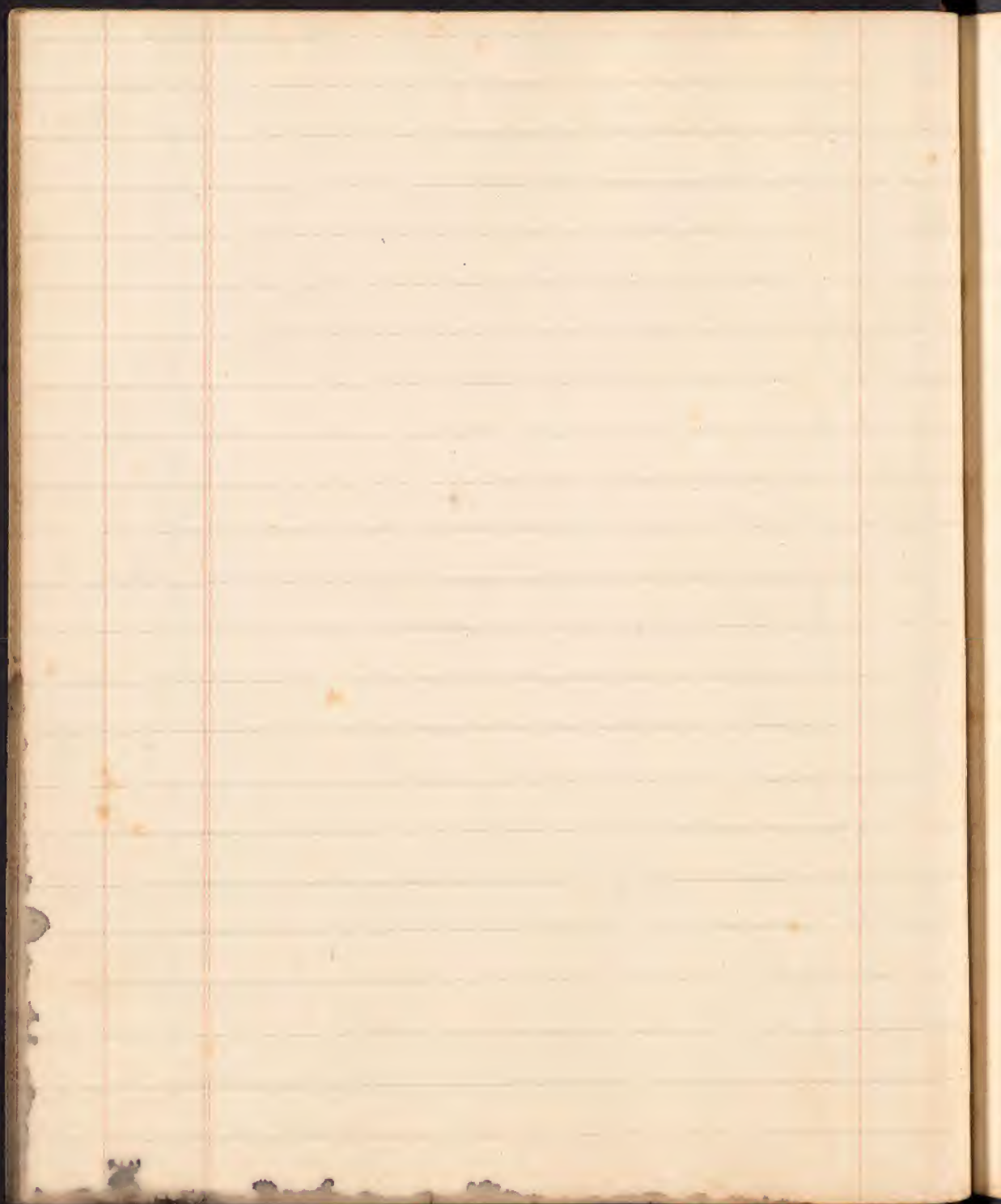




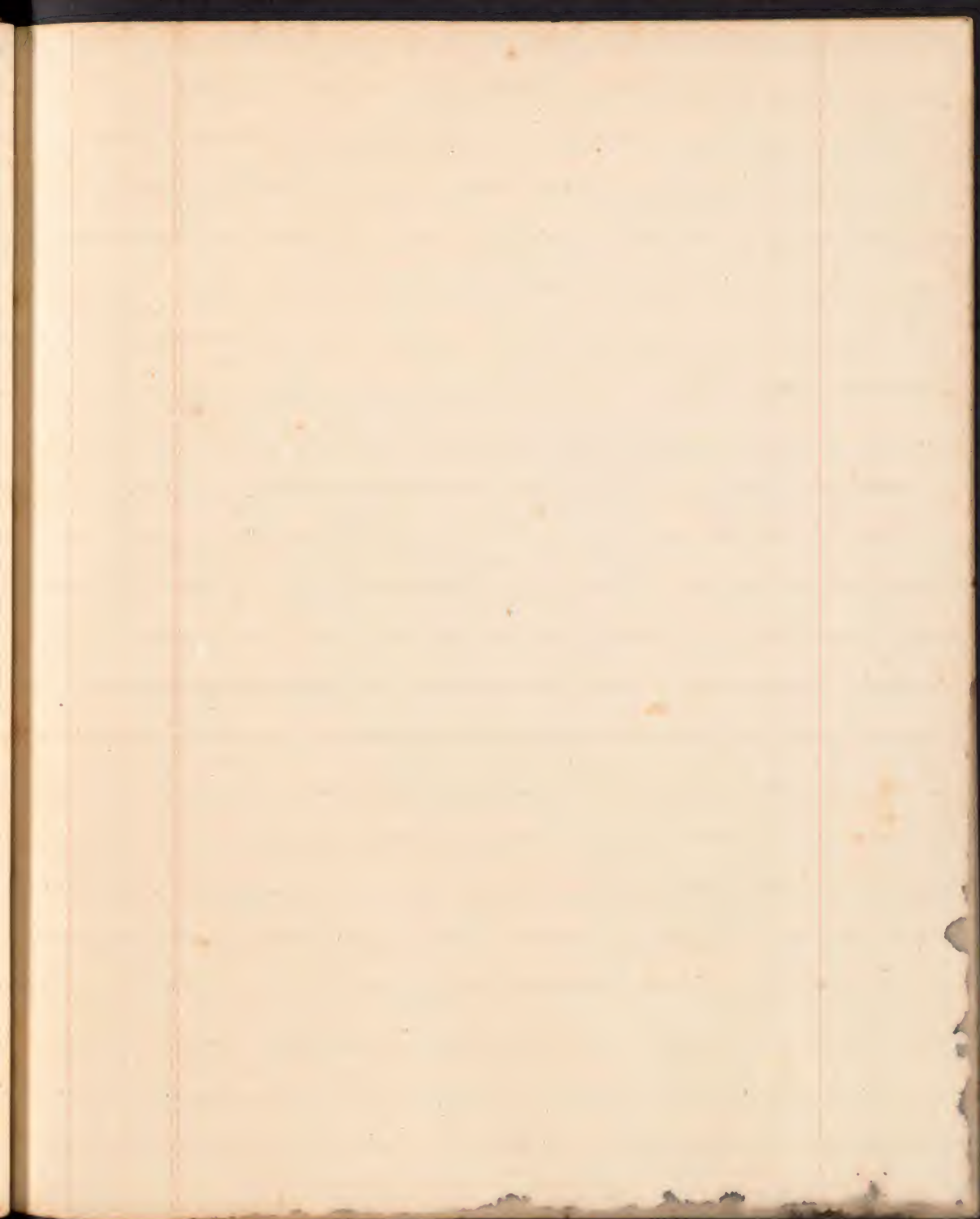


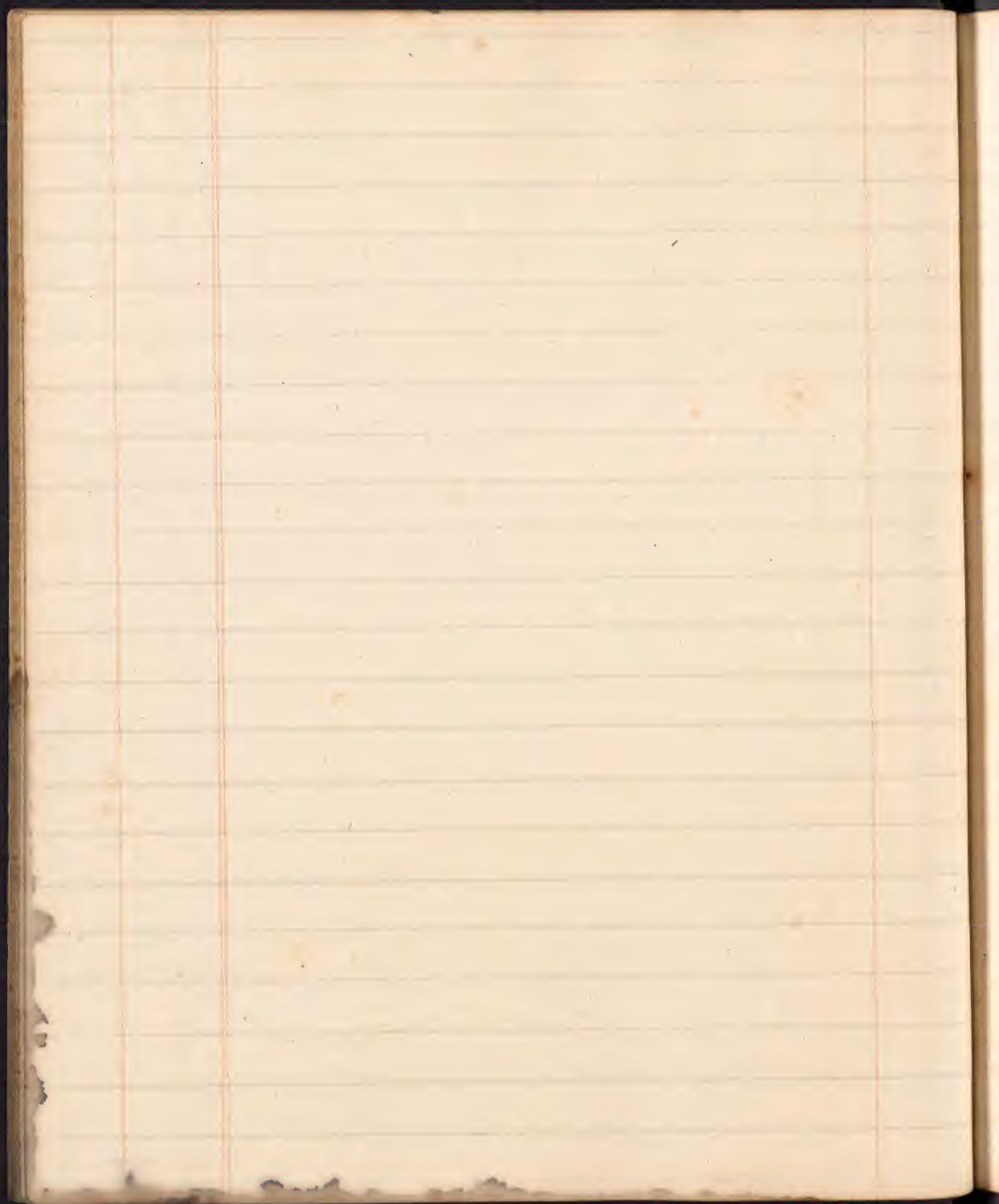


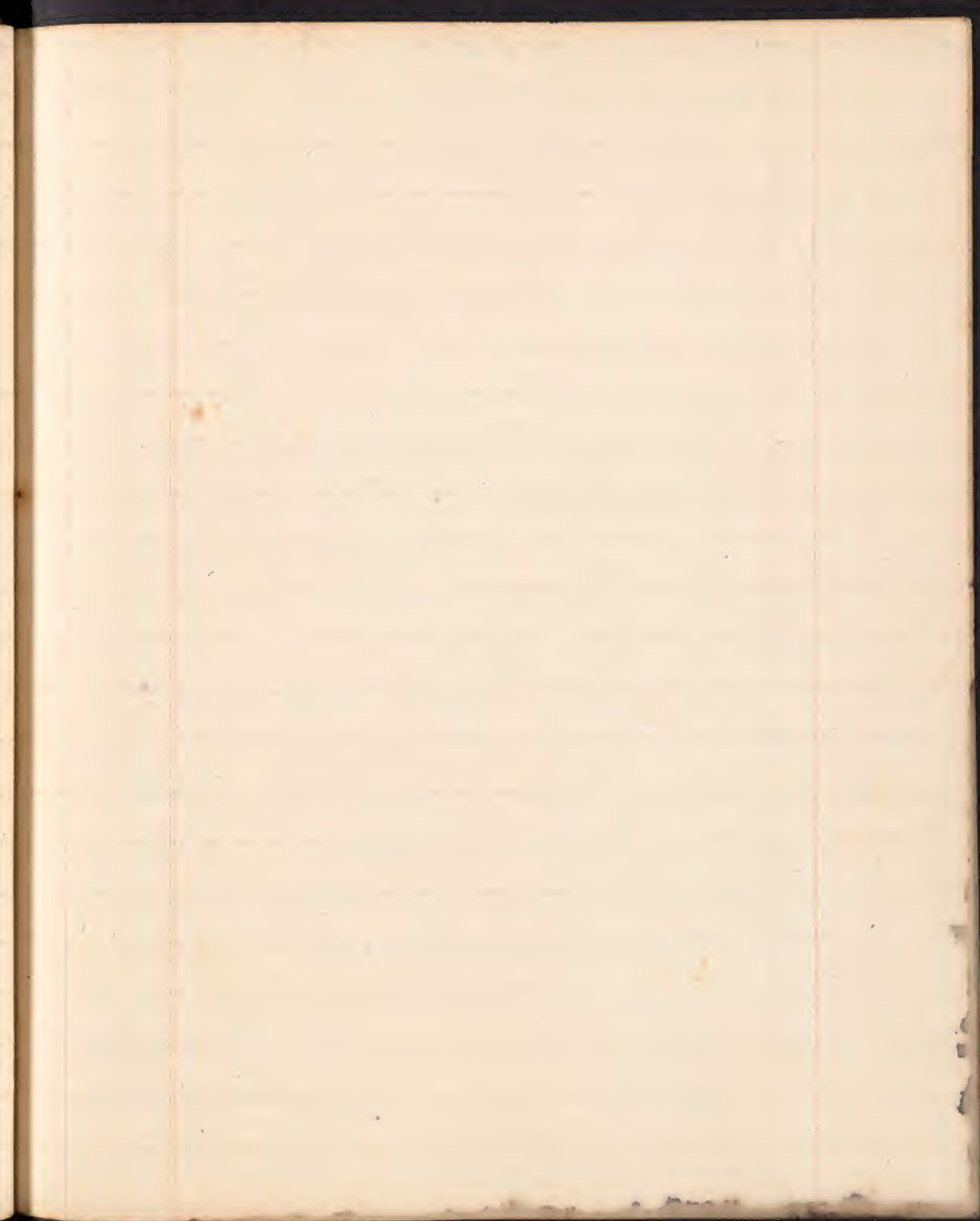






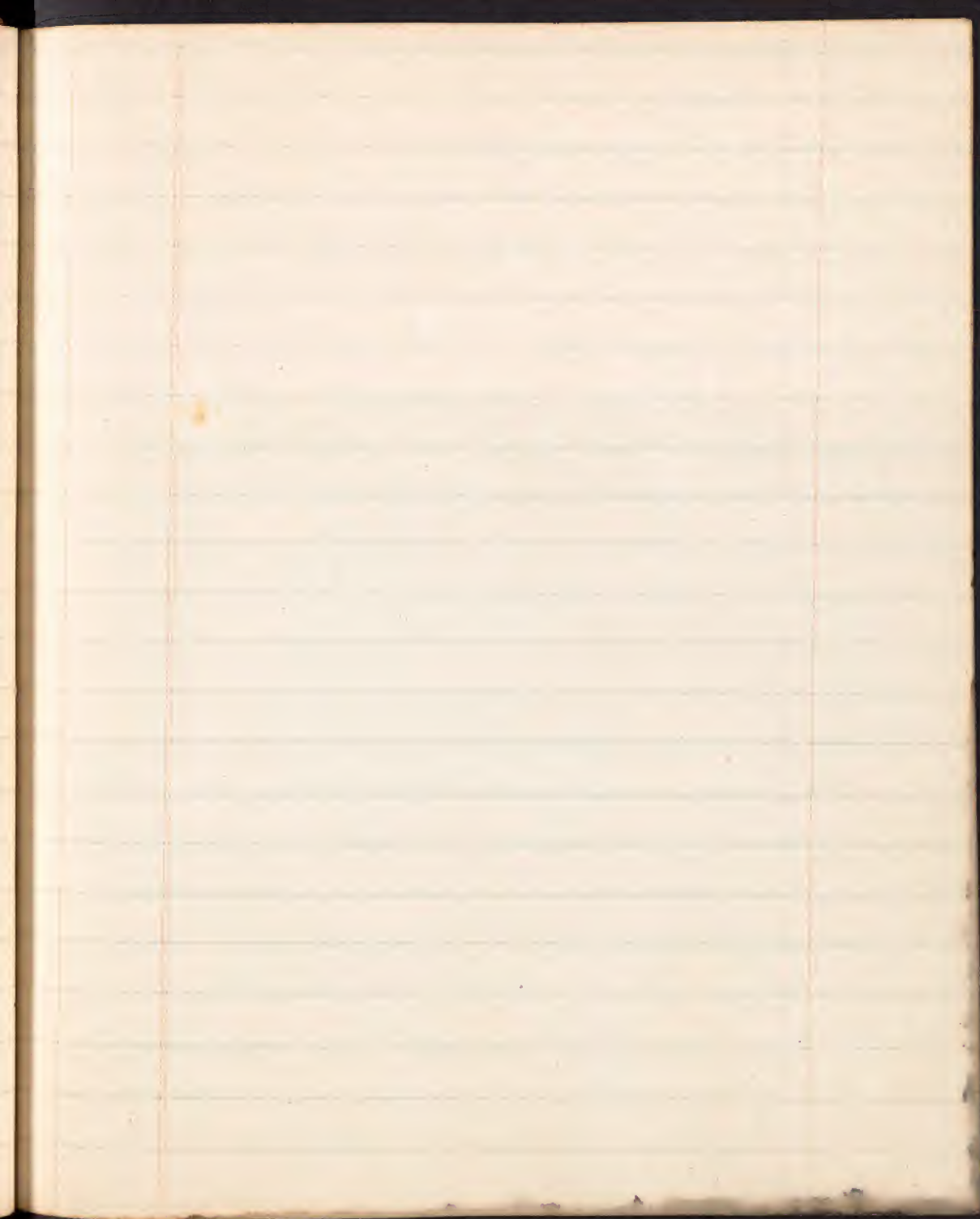






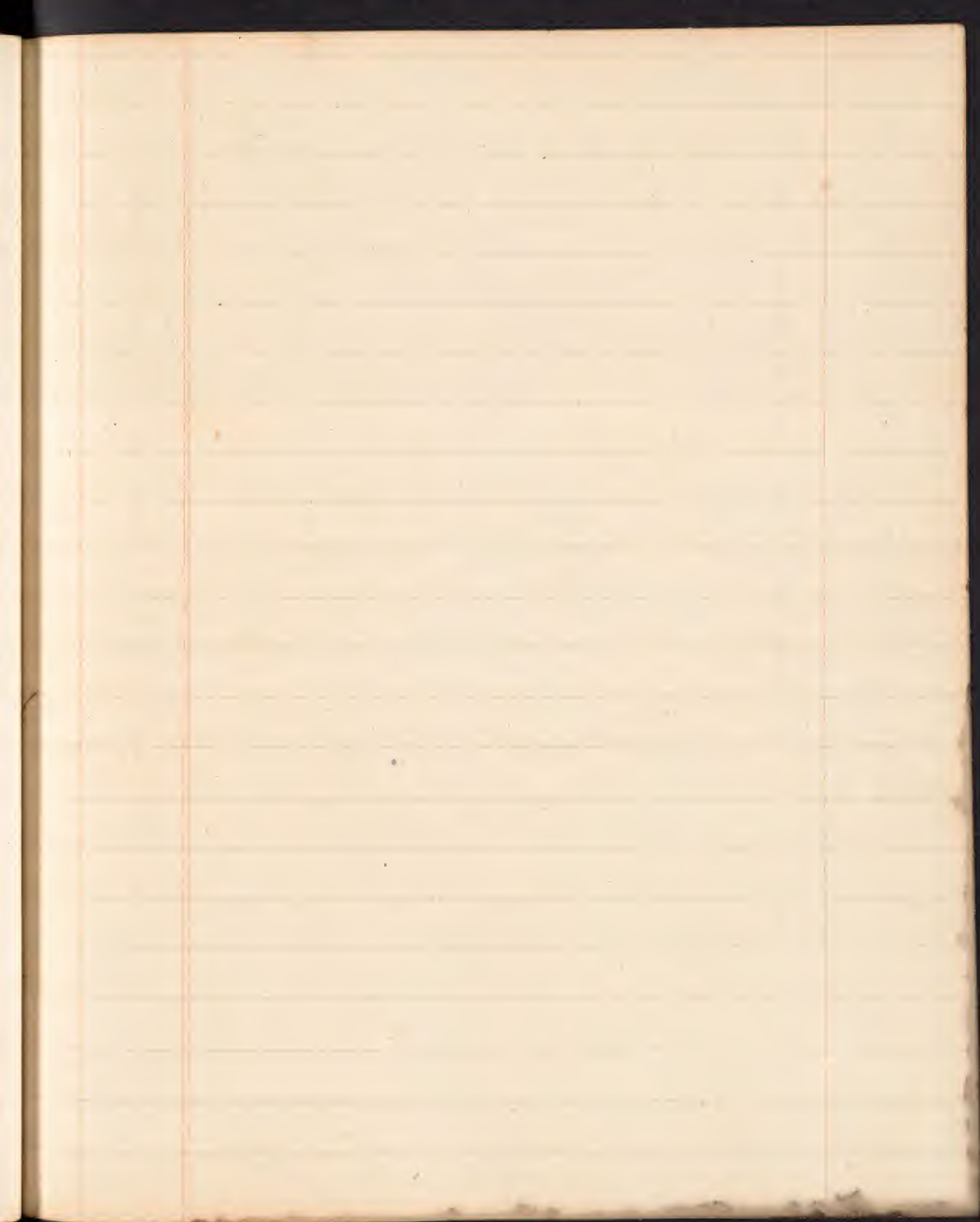


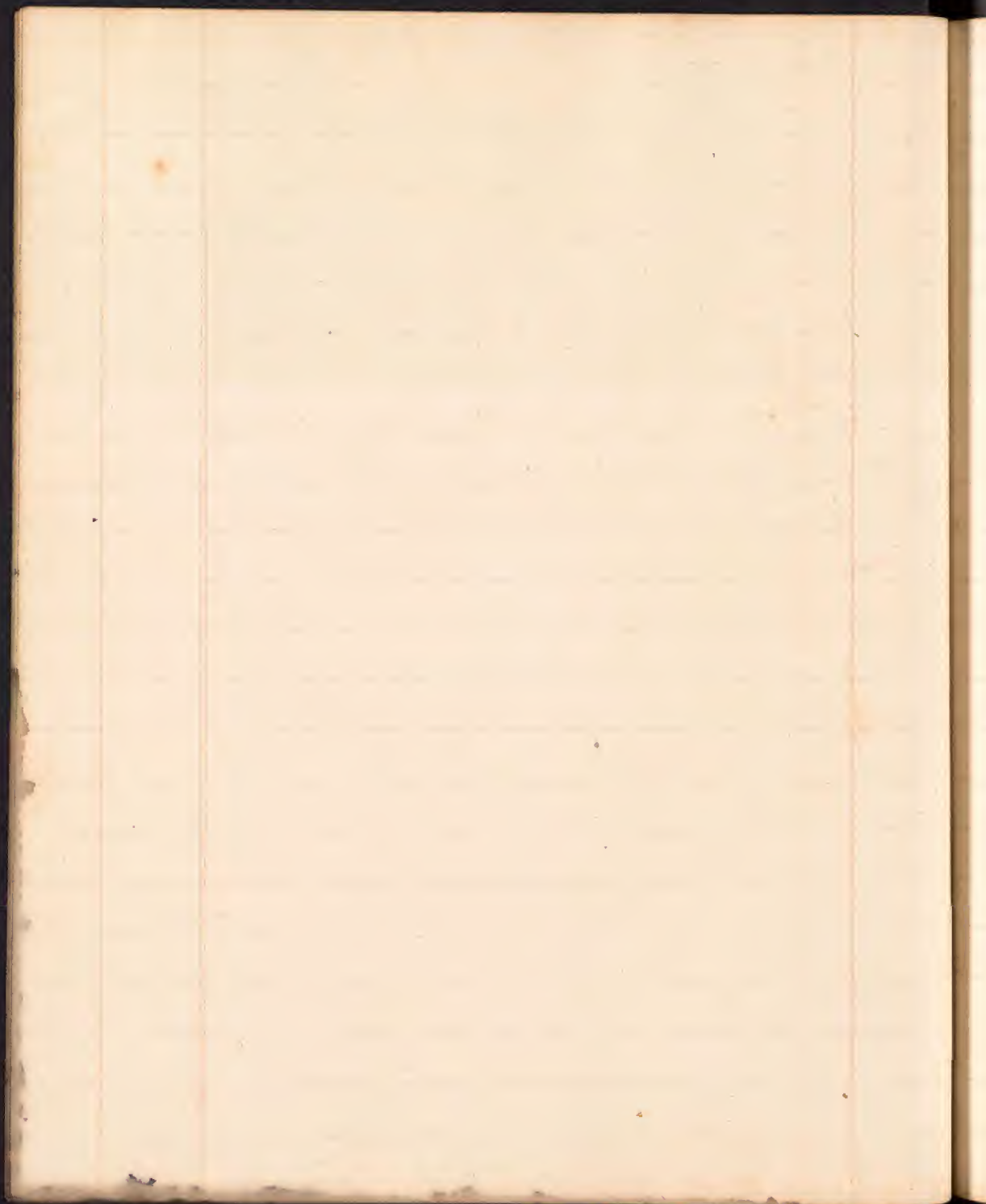






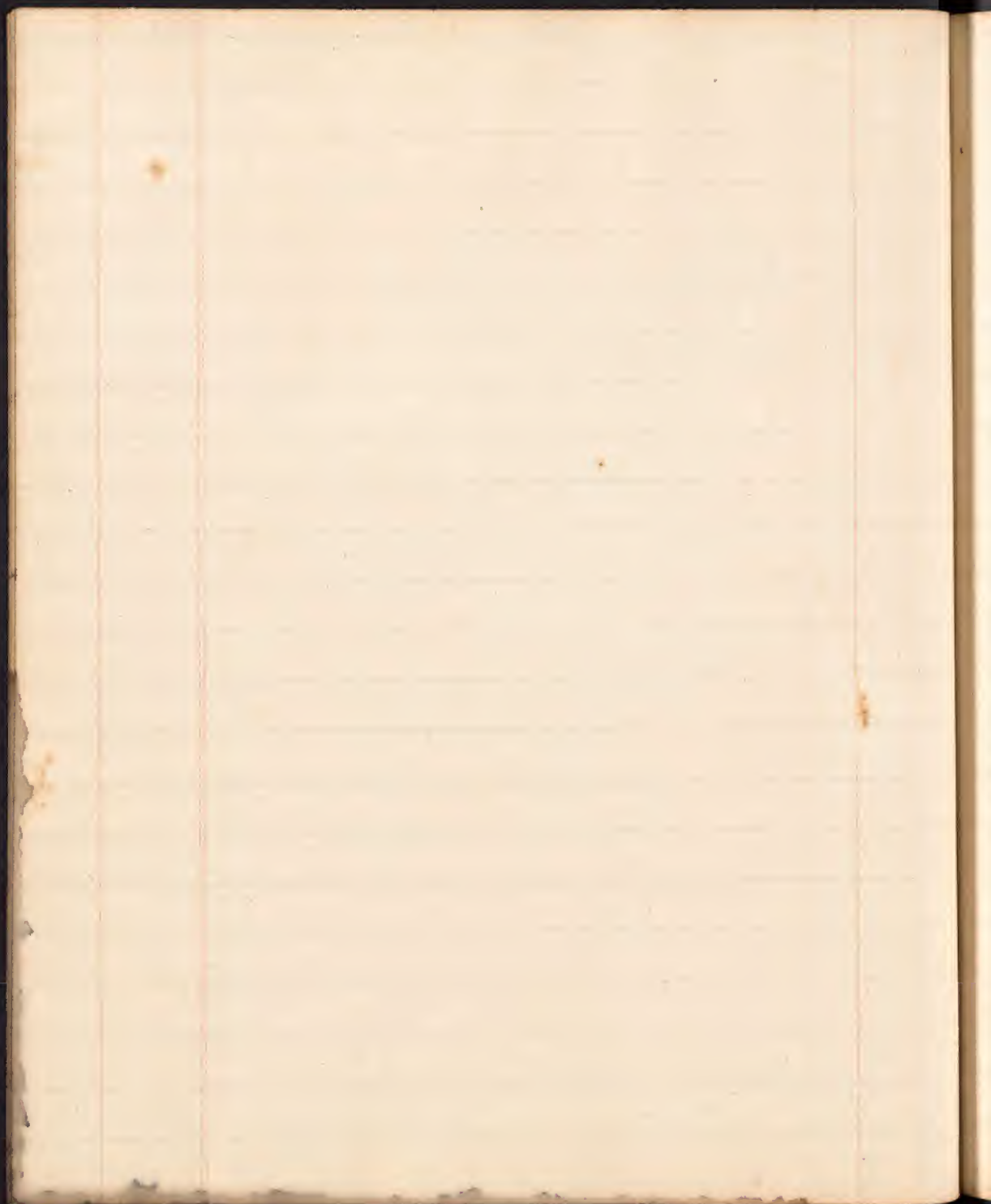


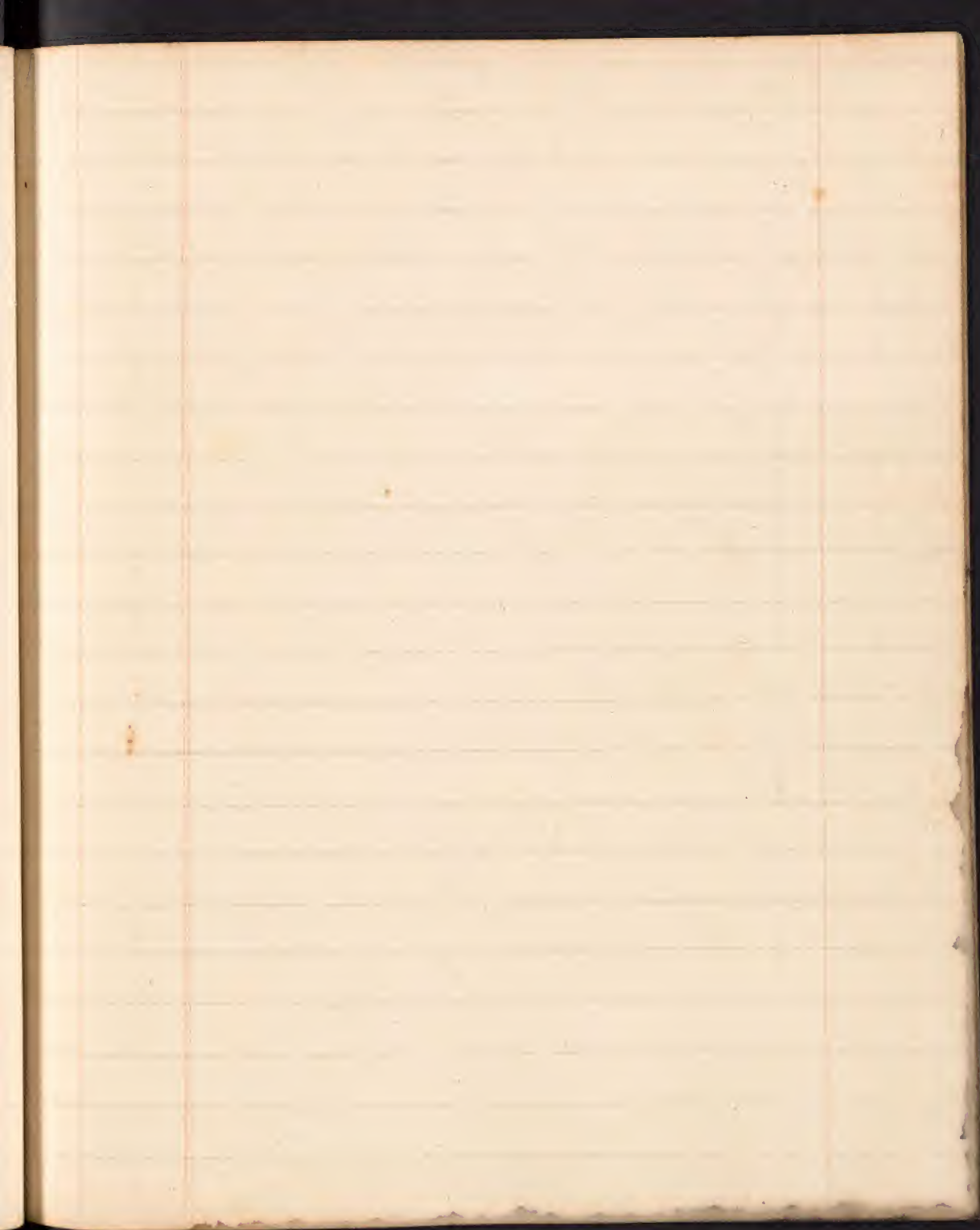


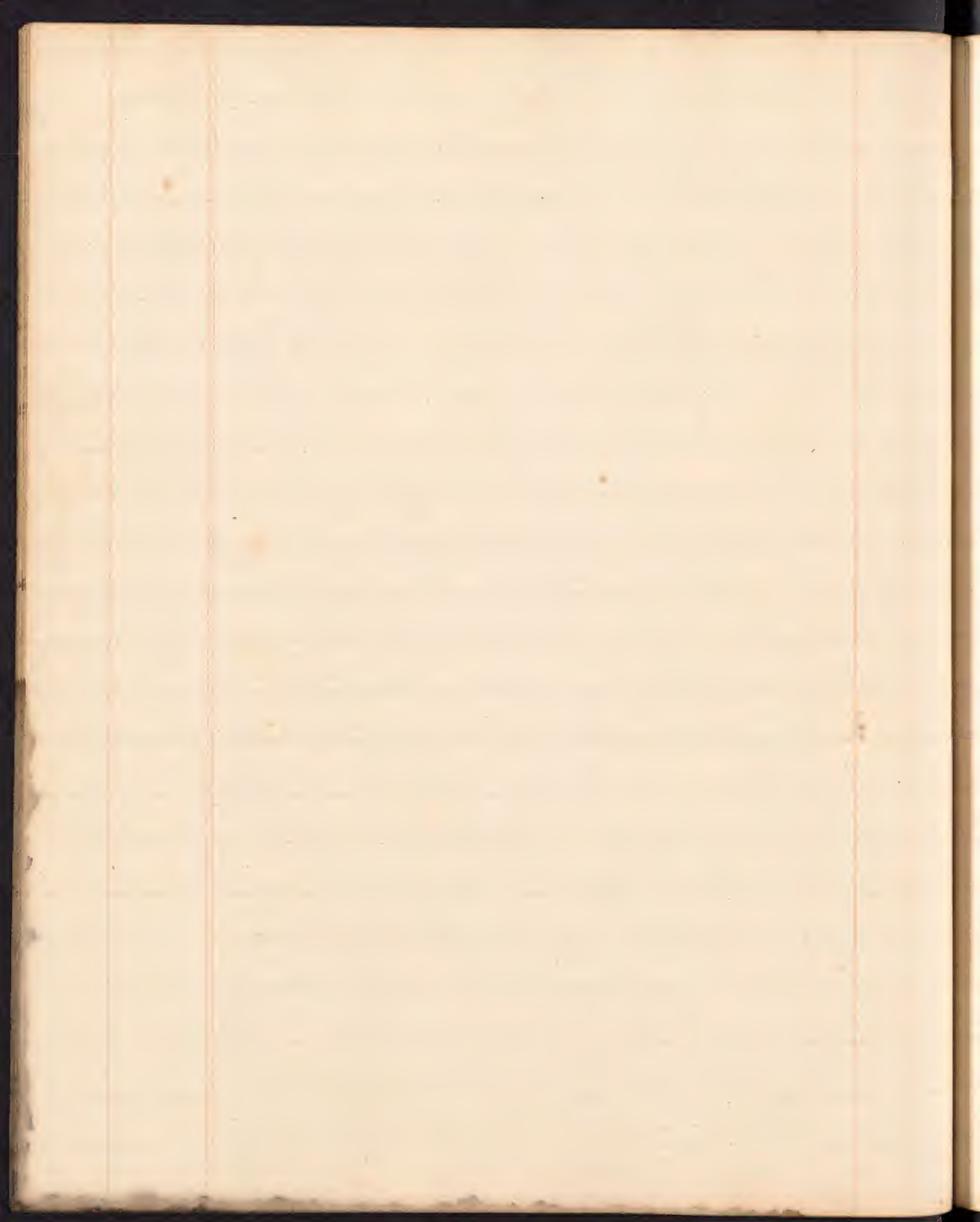






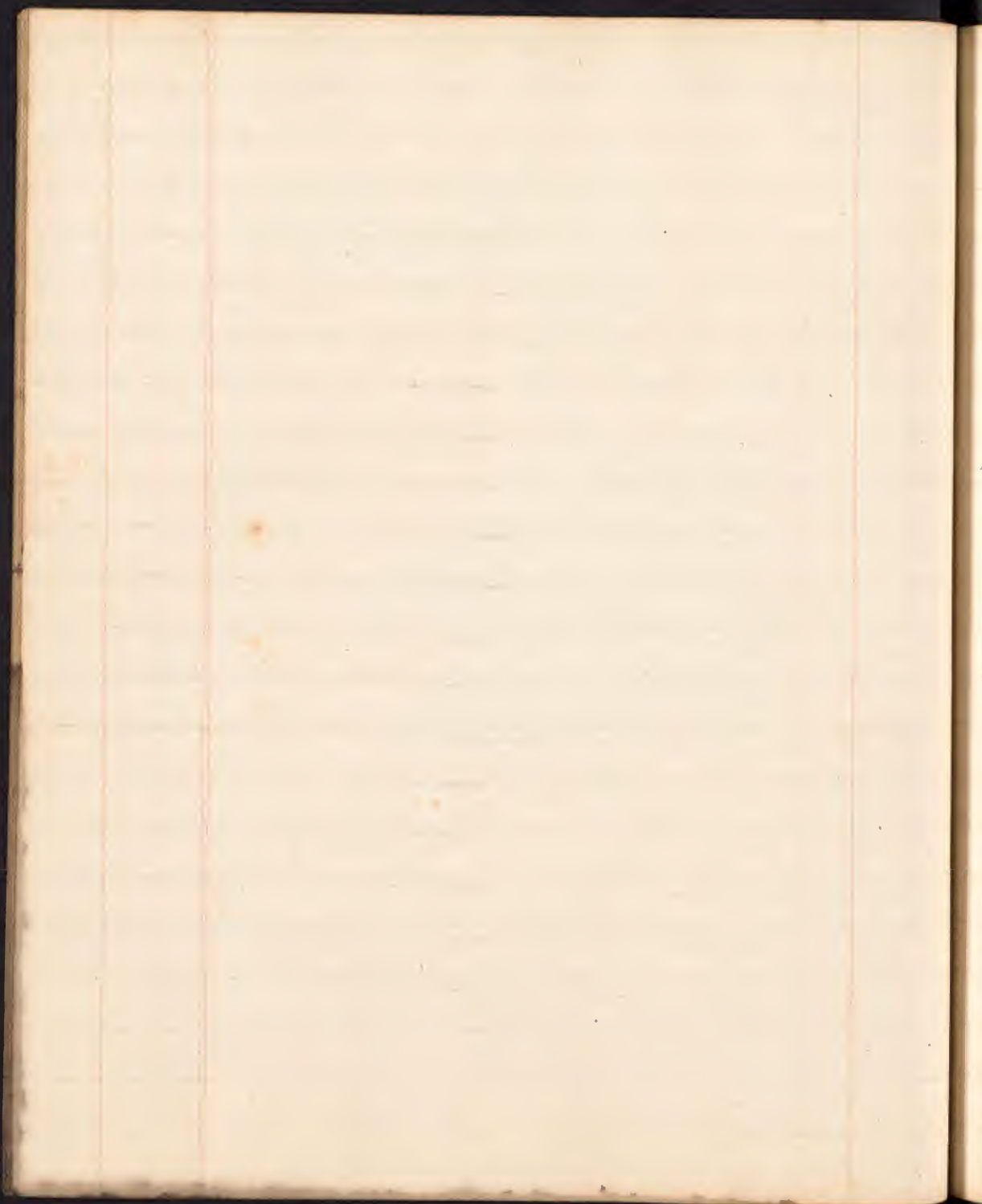






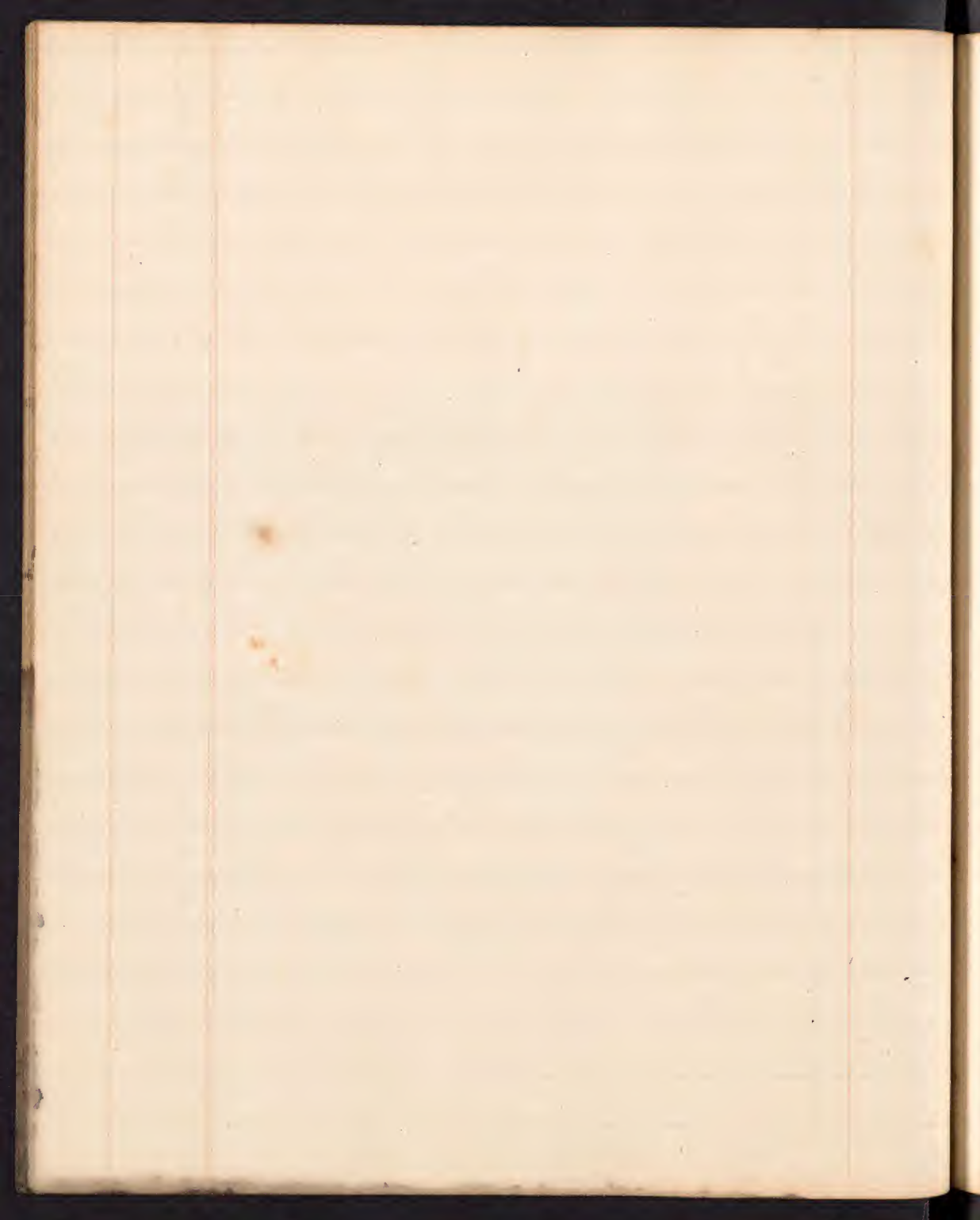


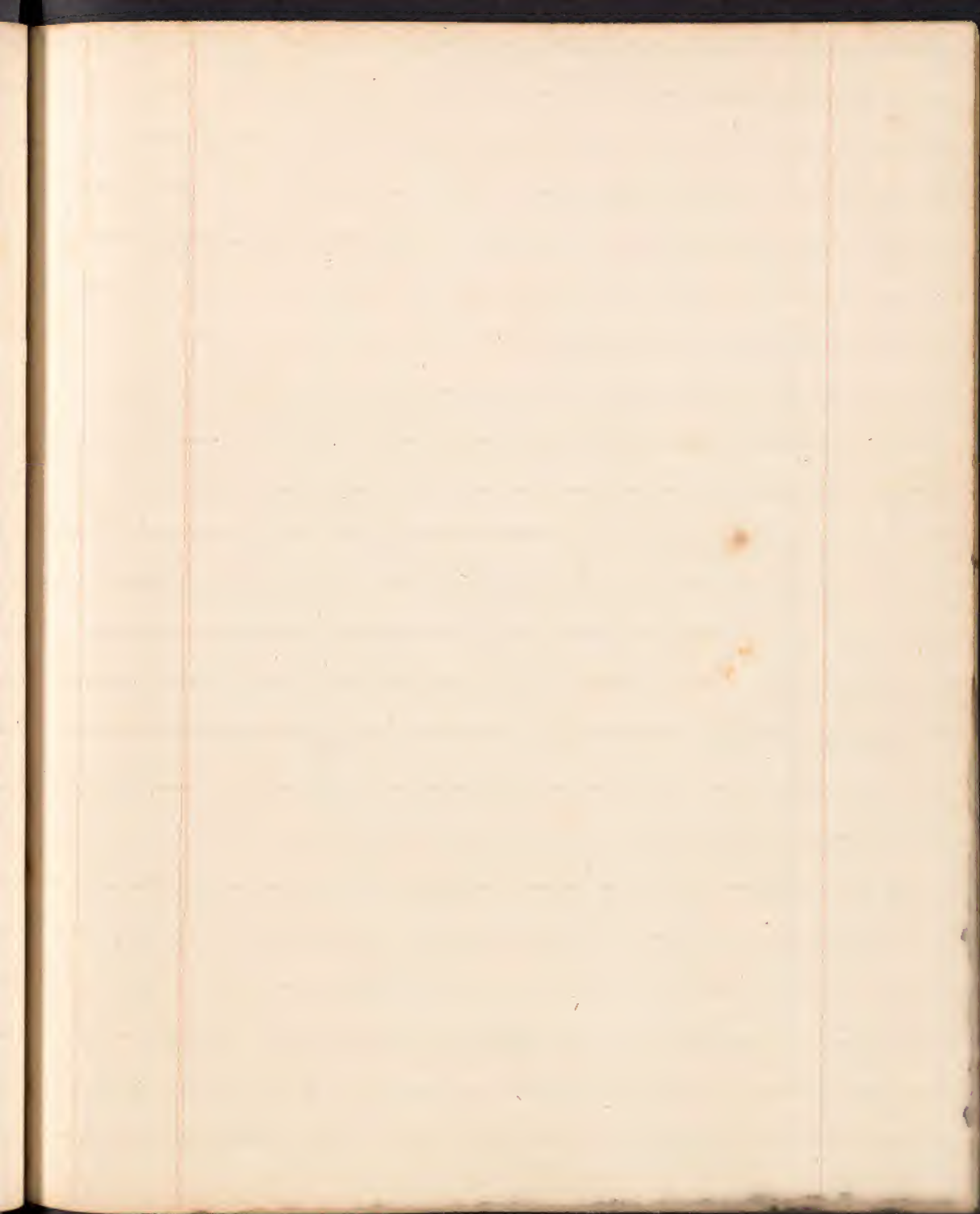


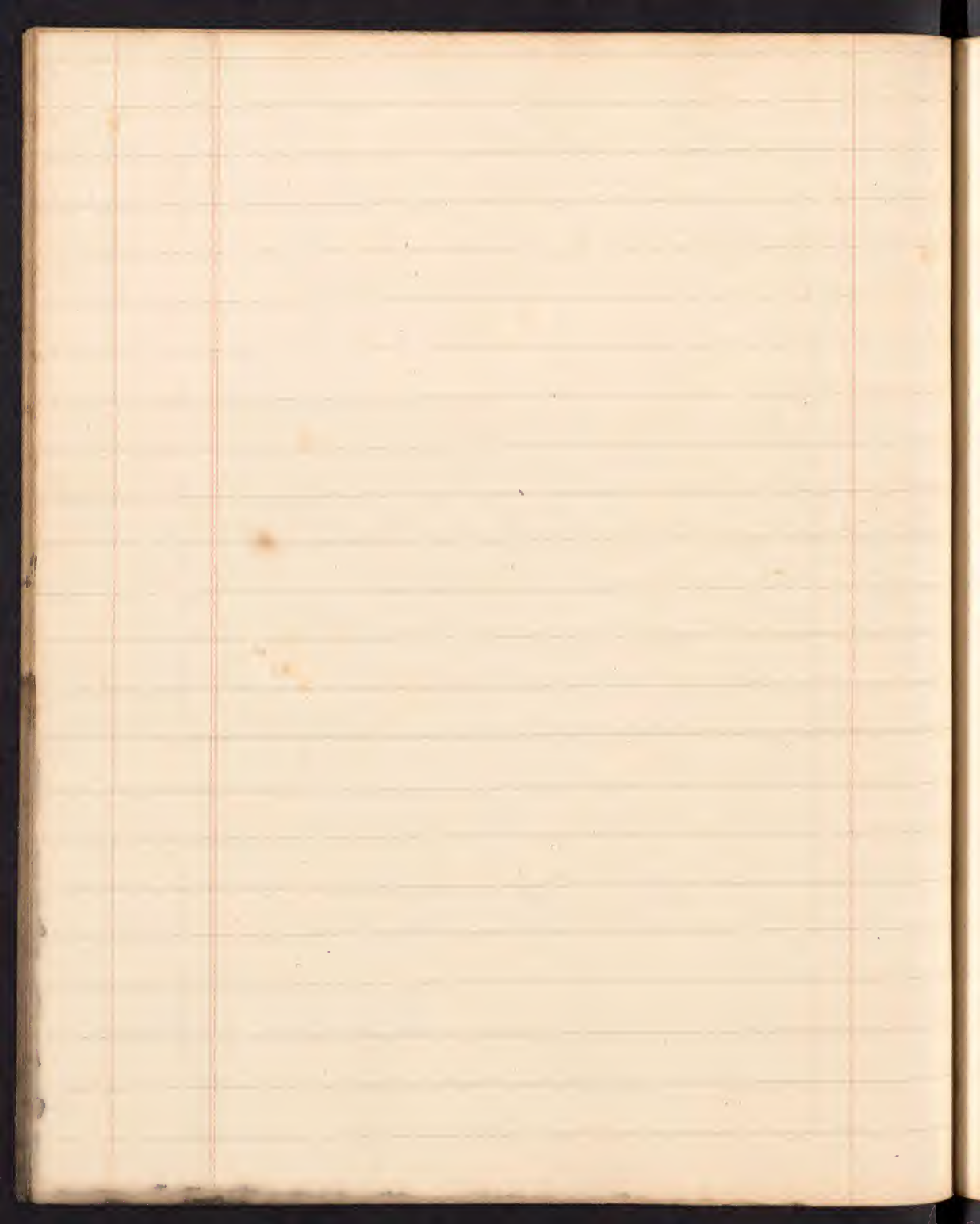








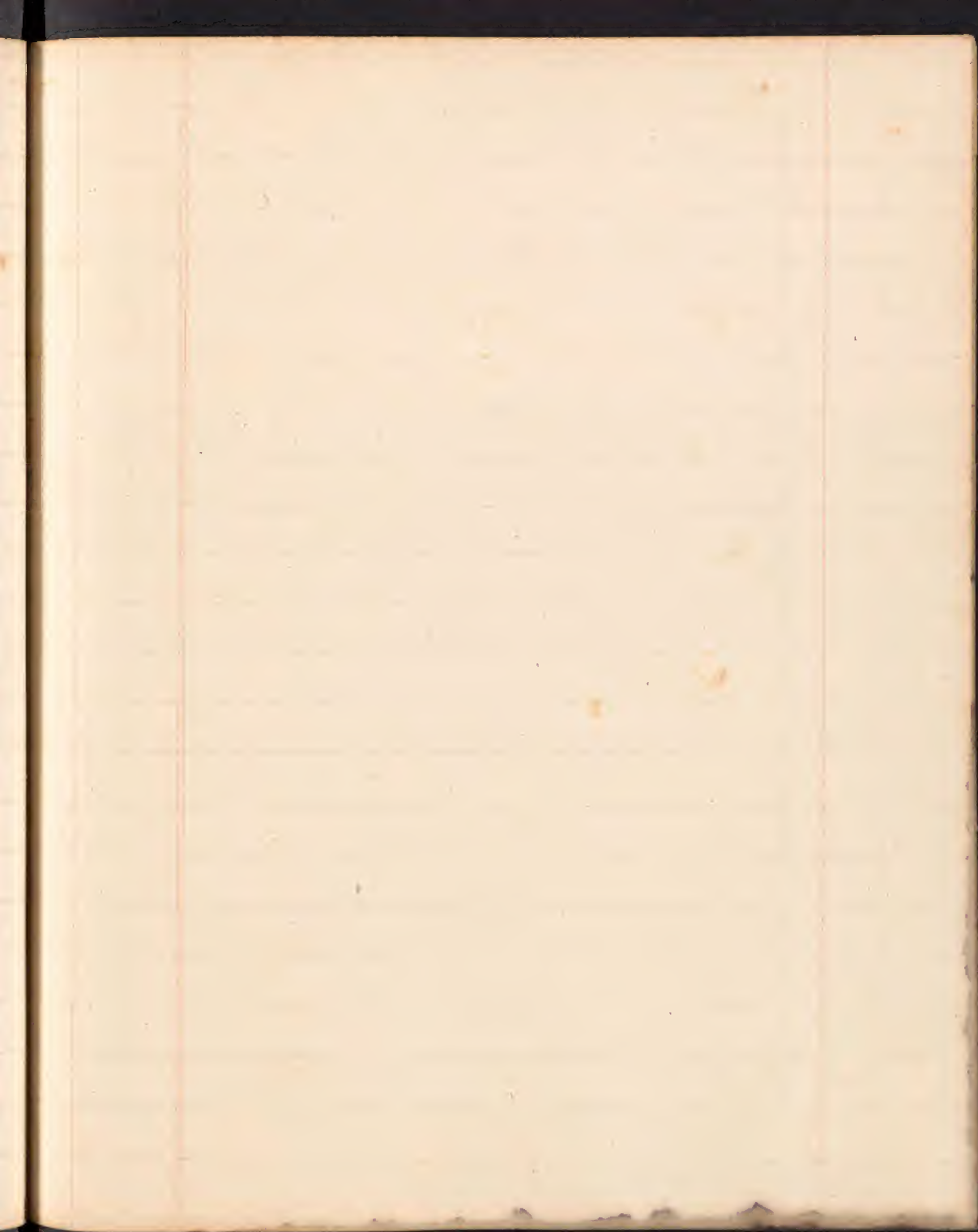




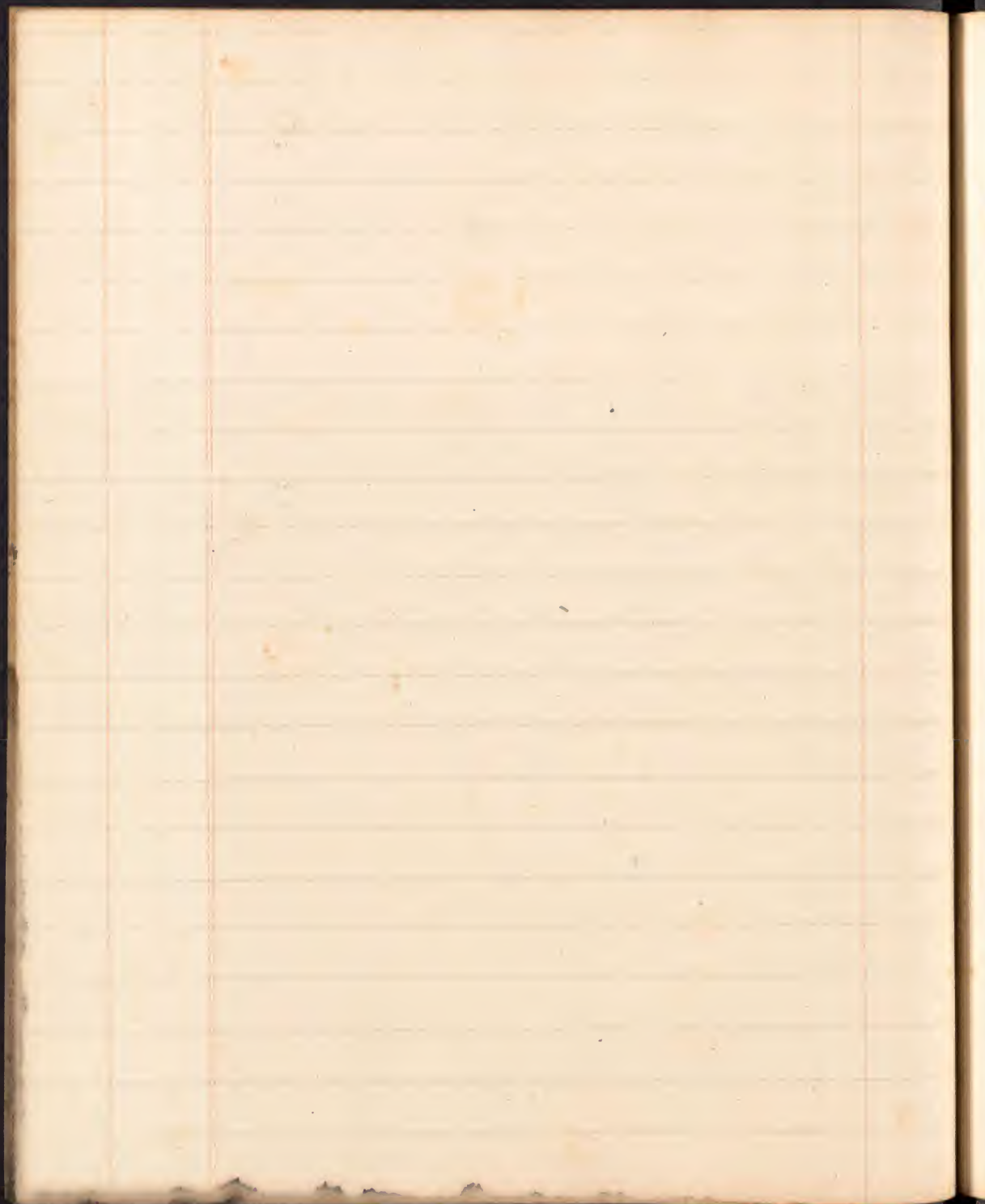




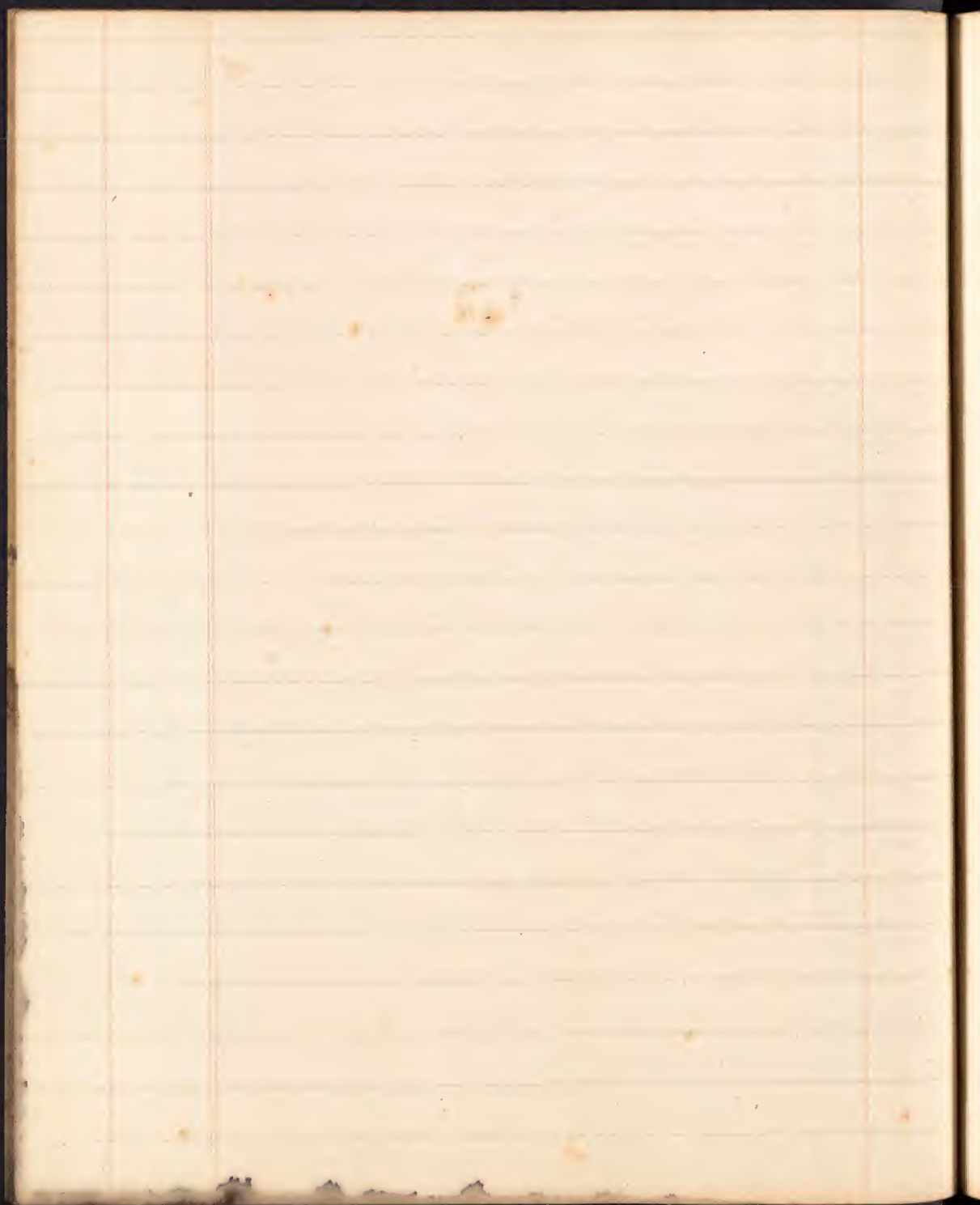


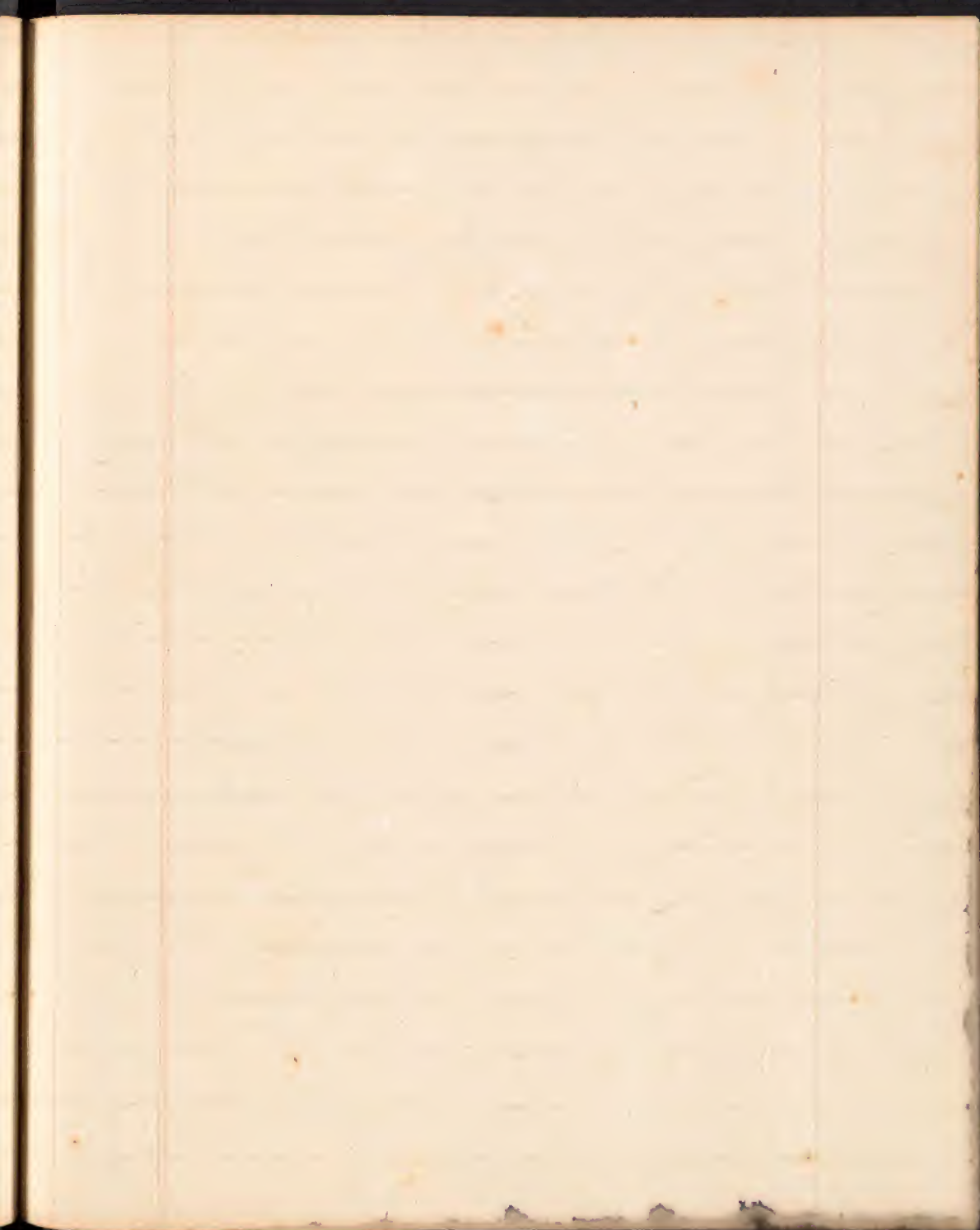




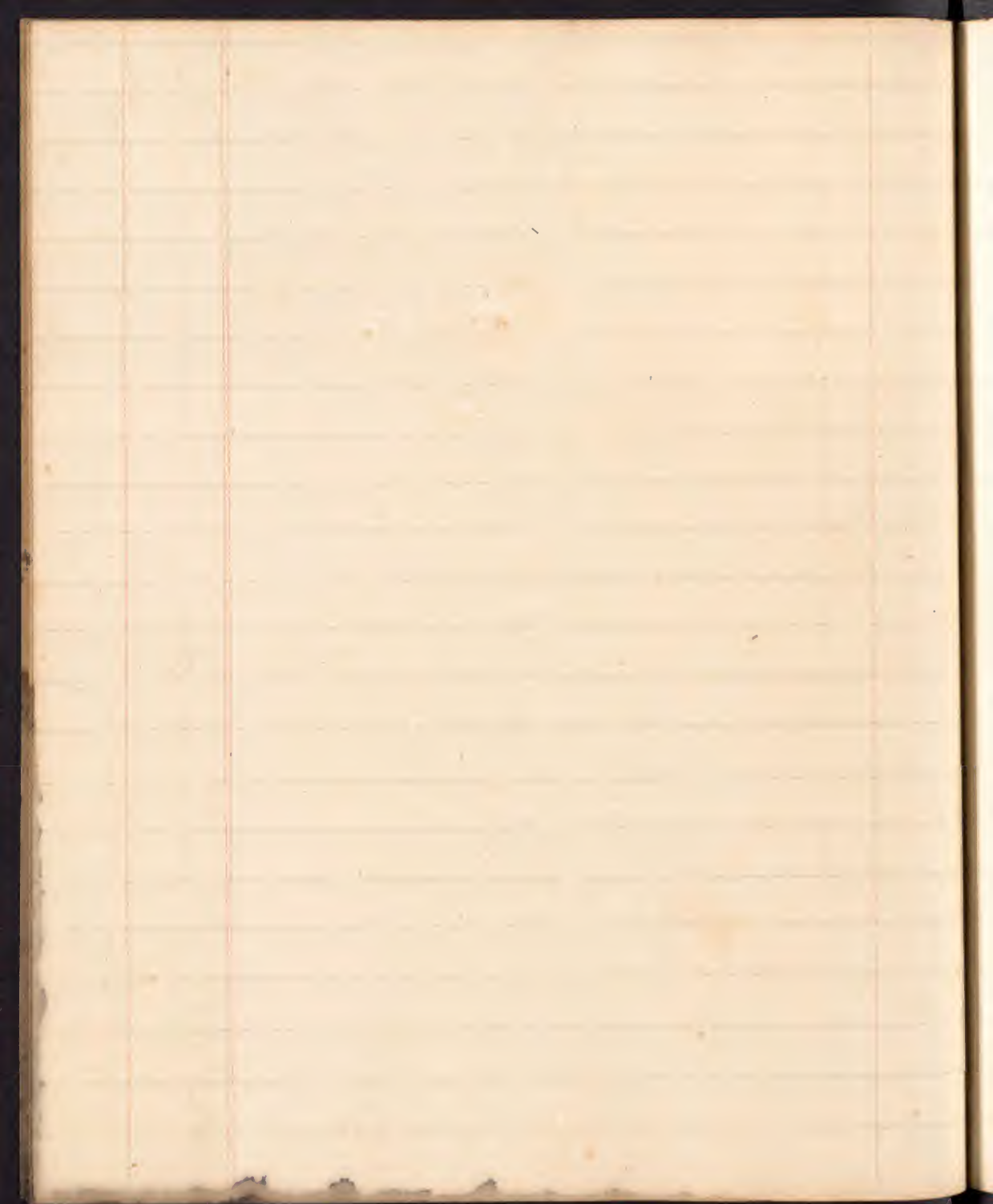


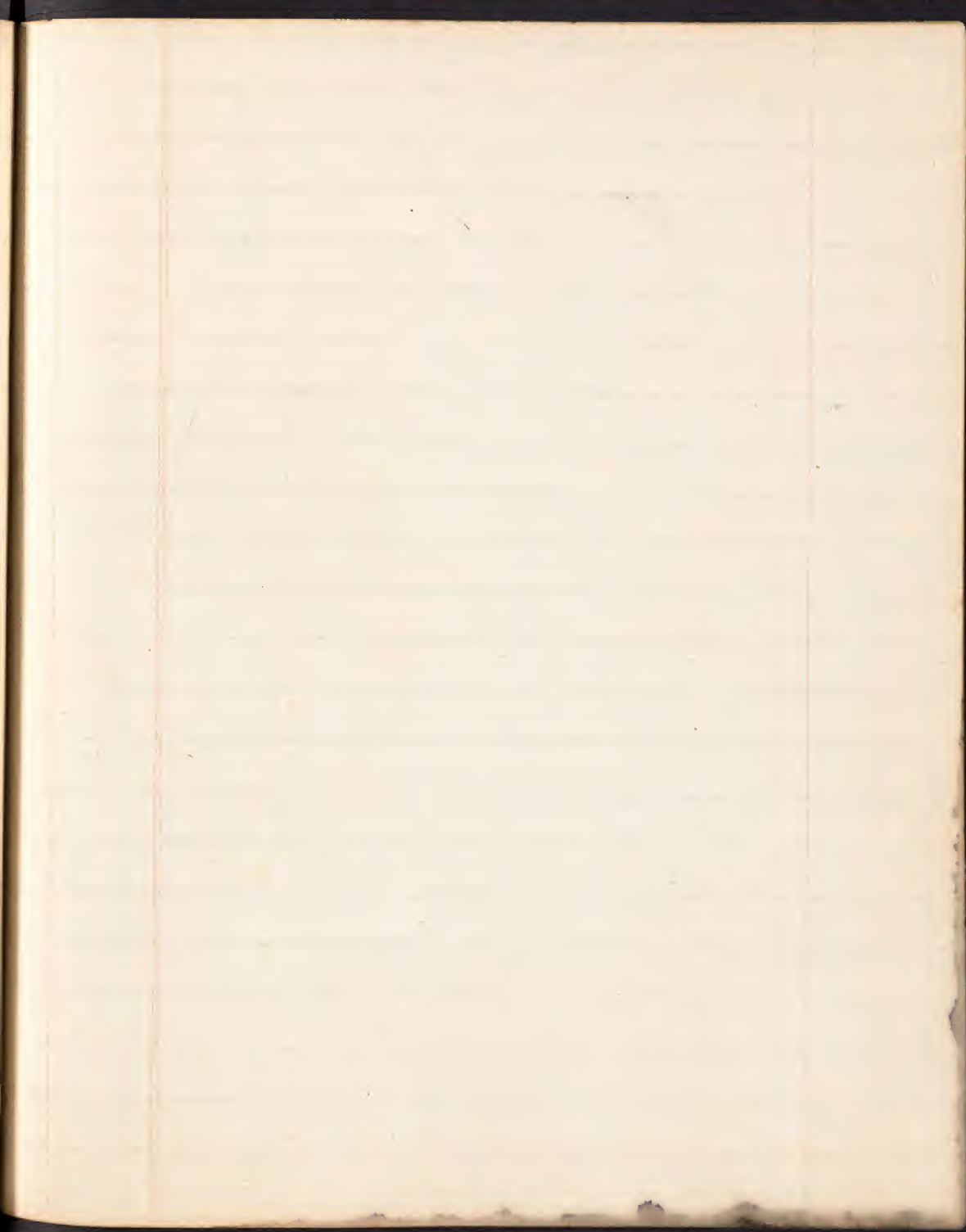


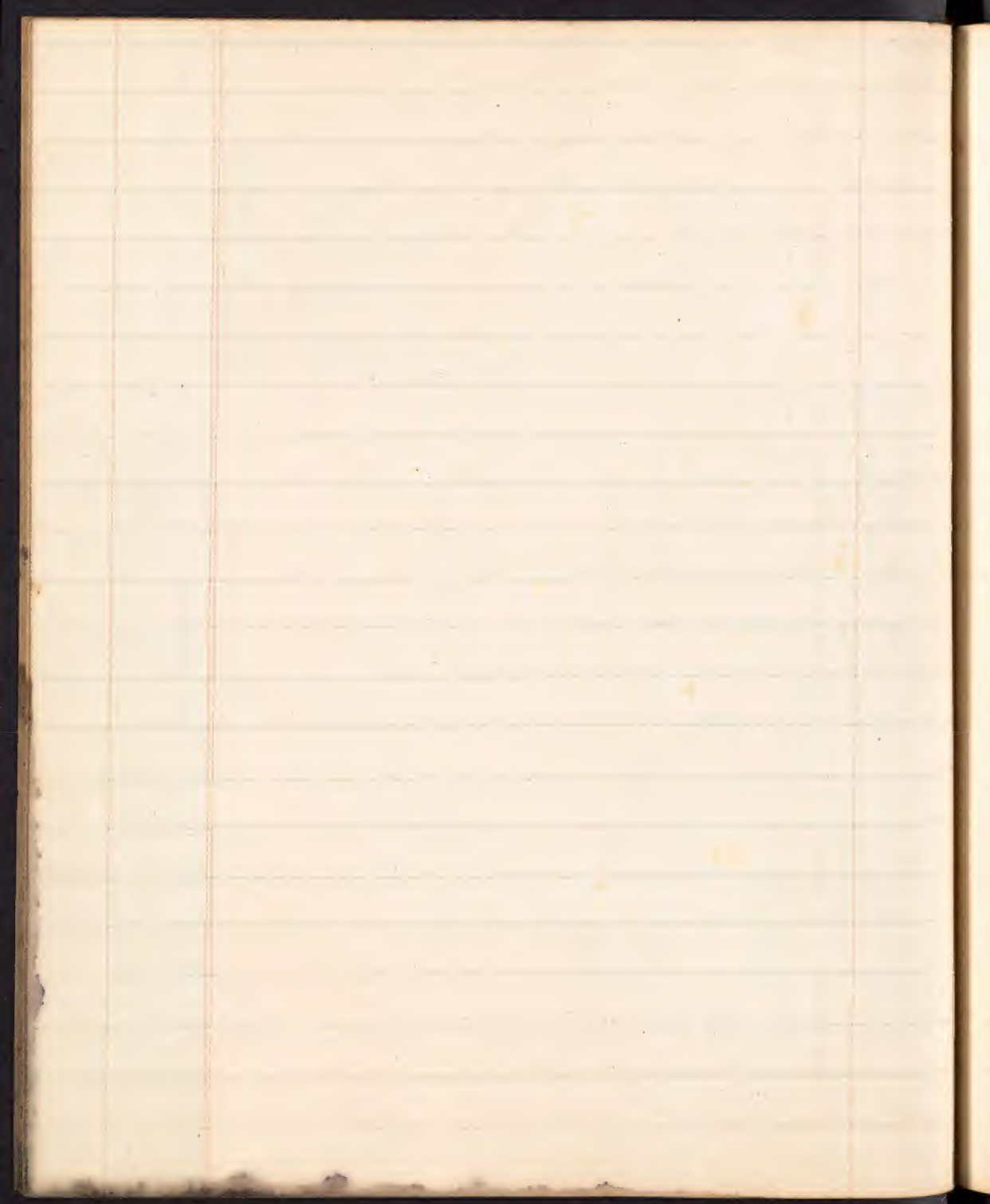


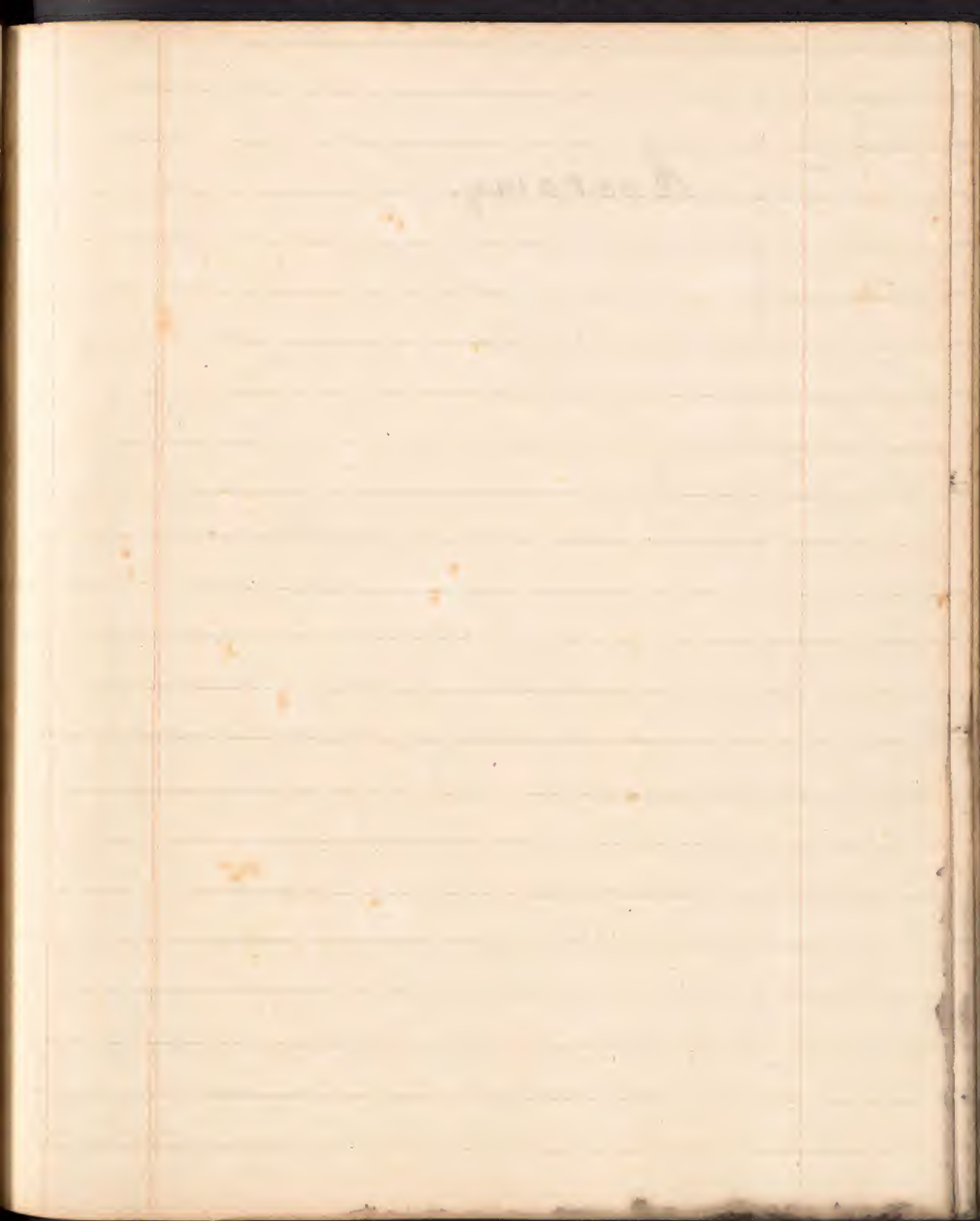






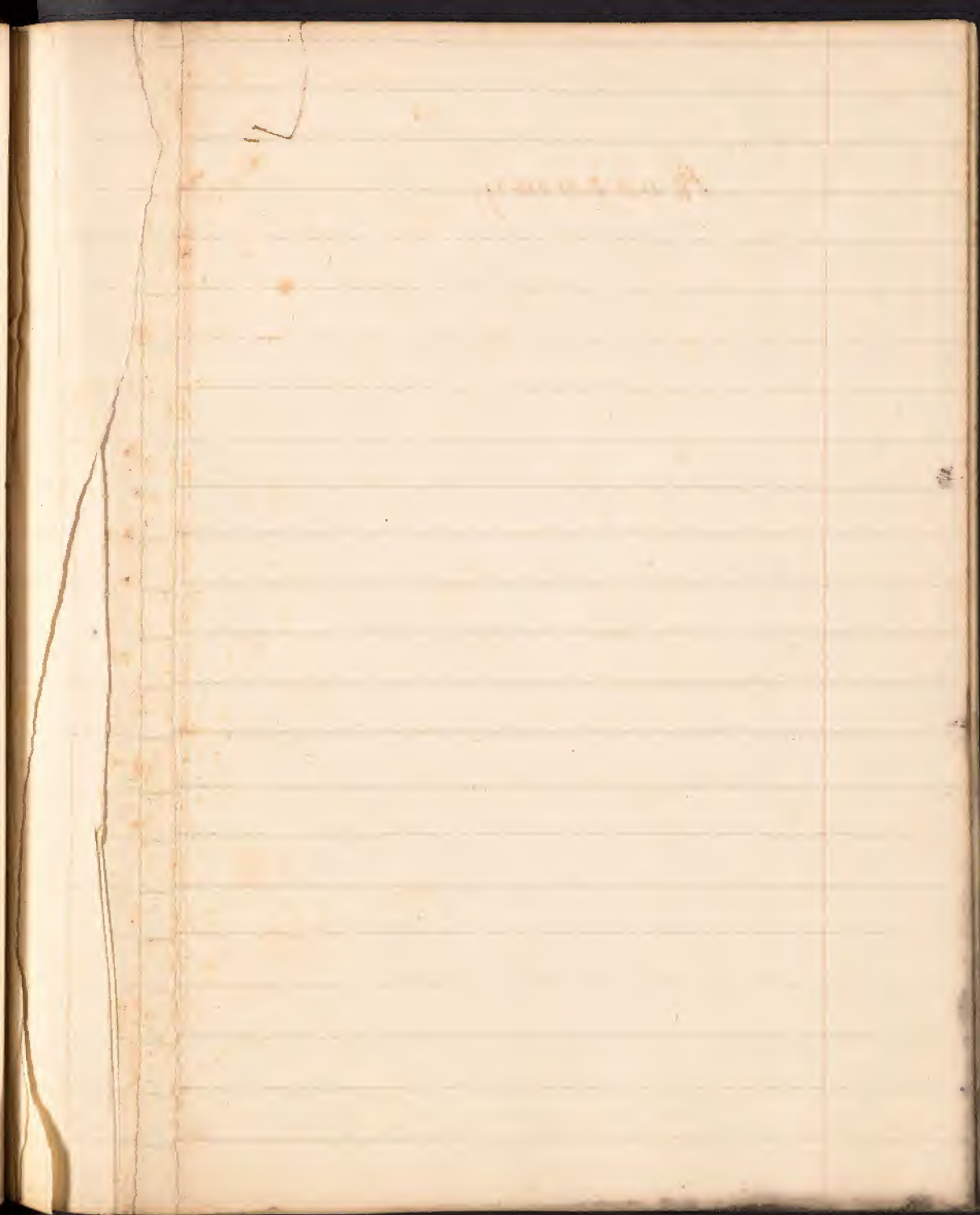




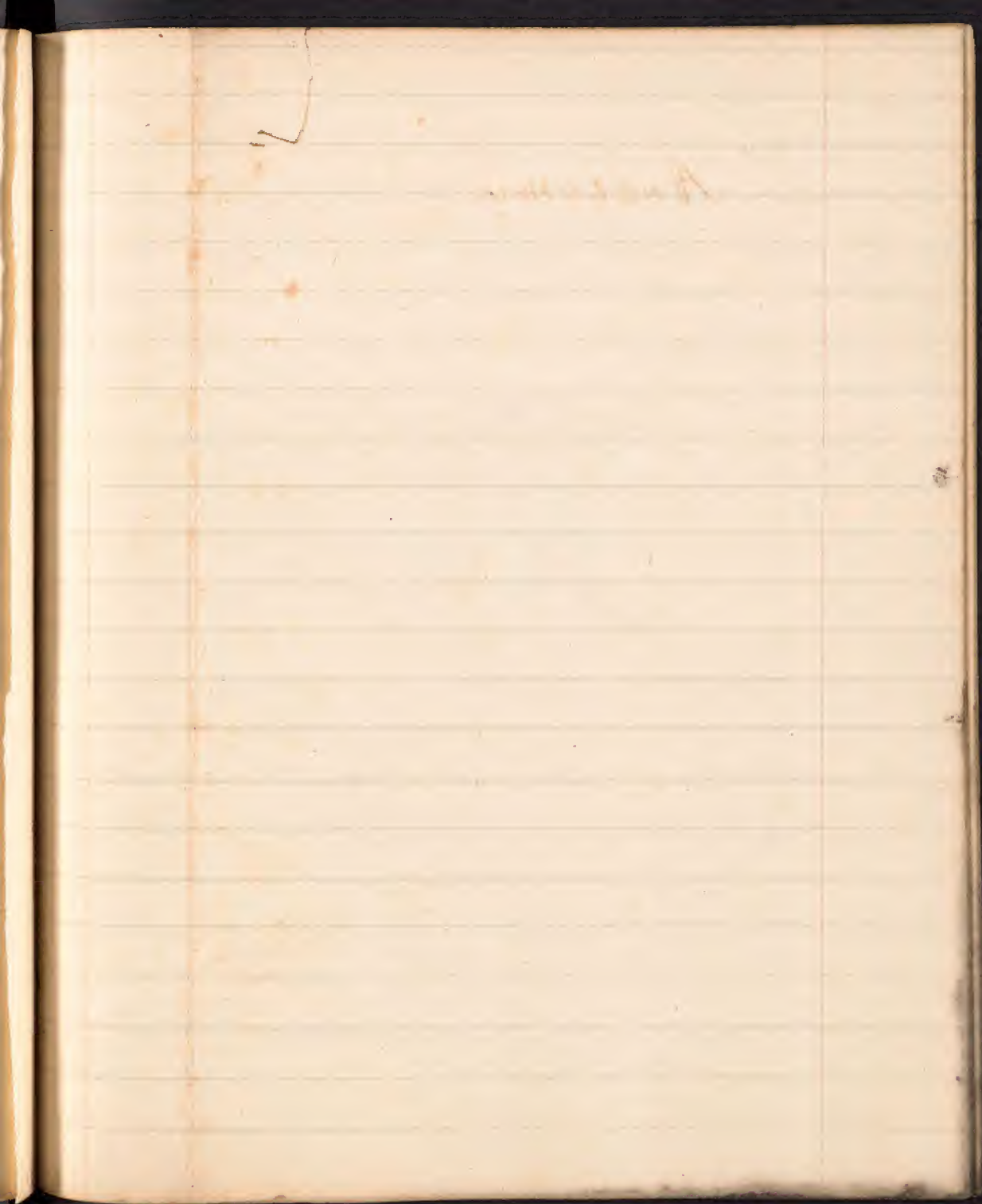




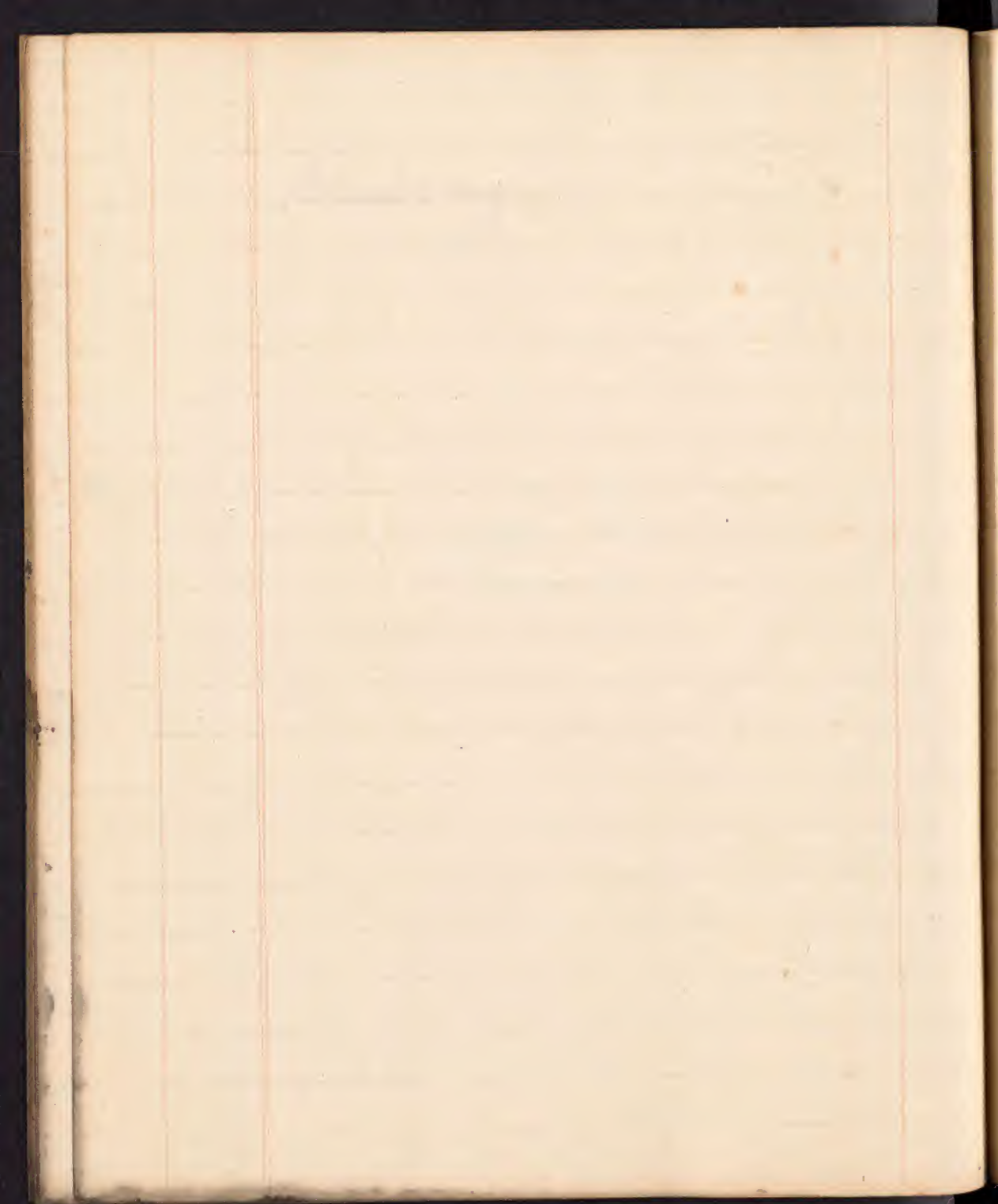
Anatomy.



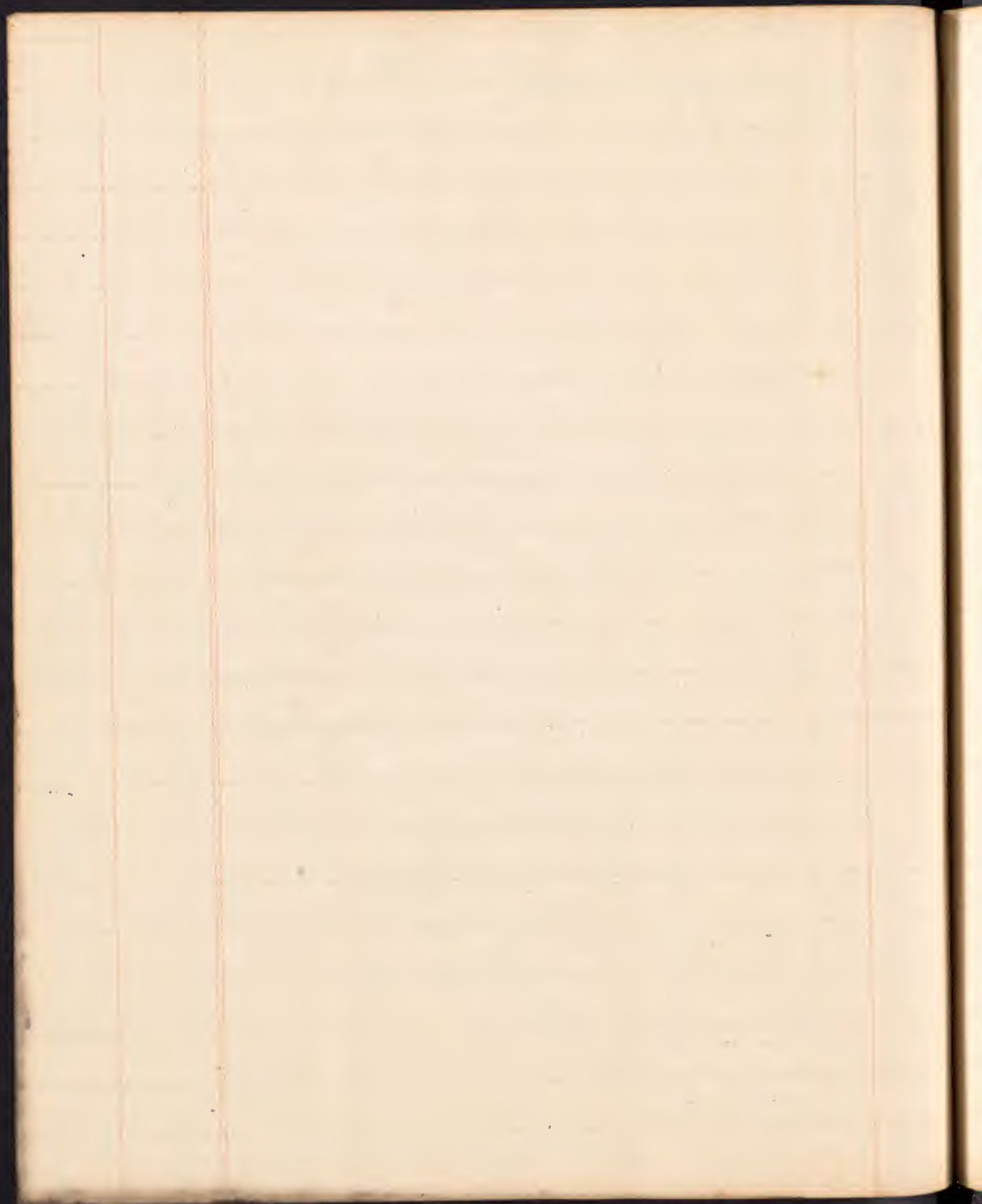
Anatomy.







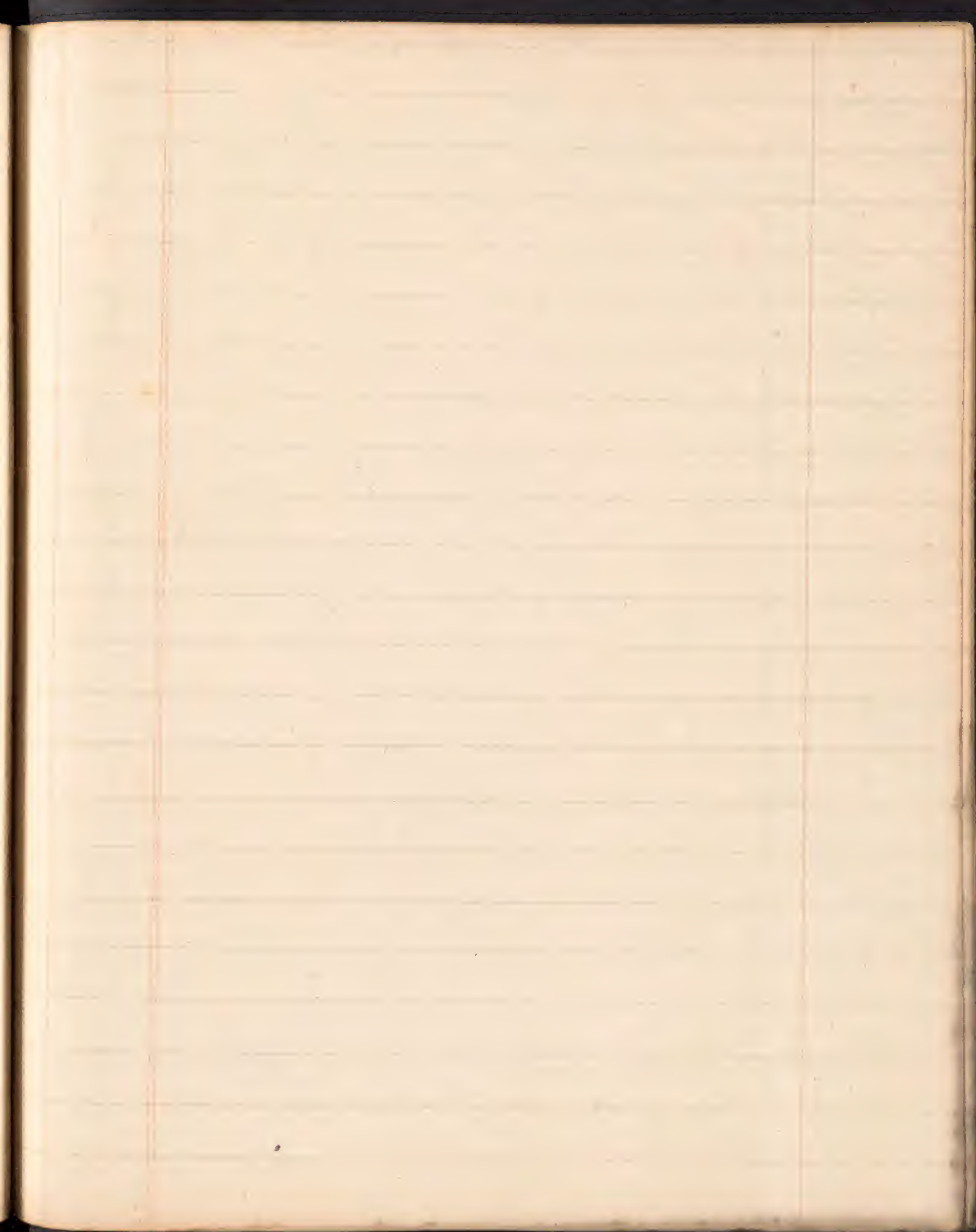




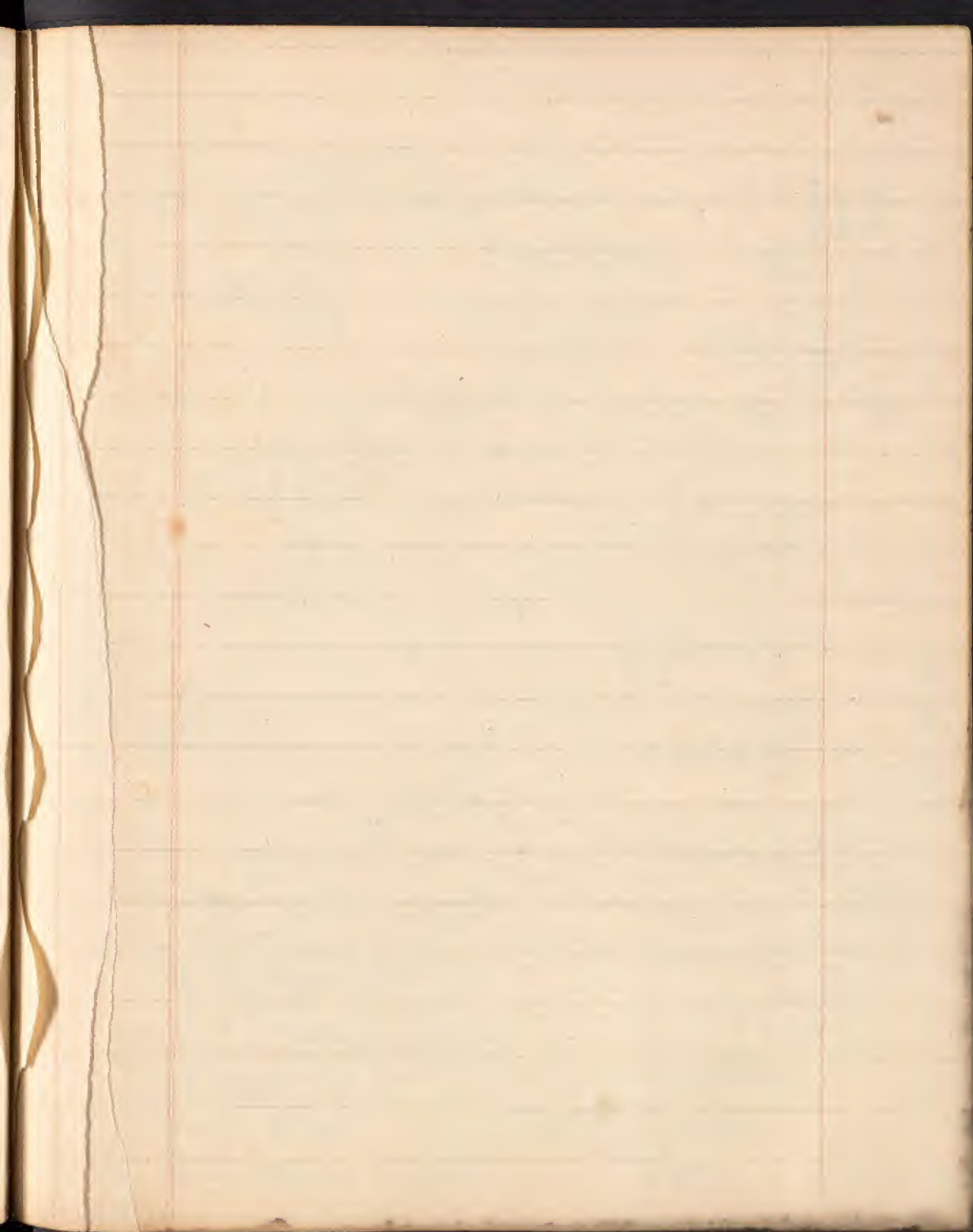




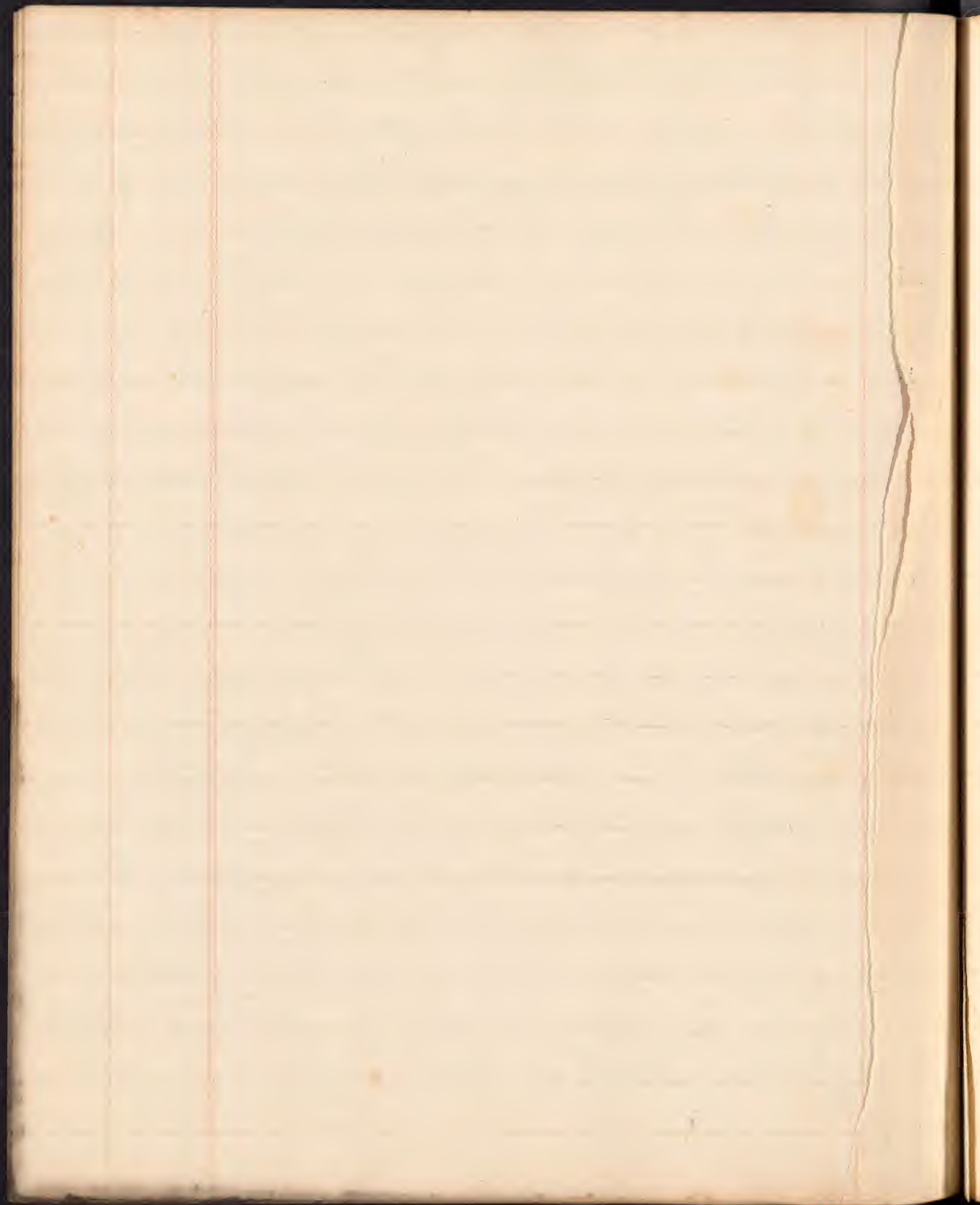


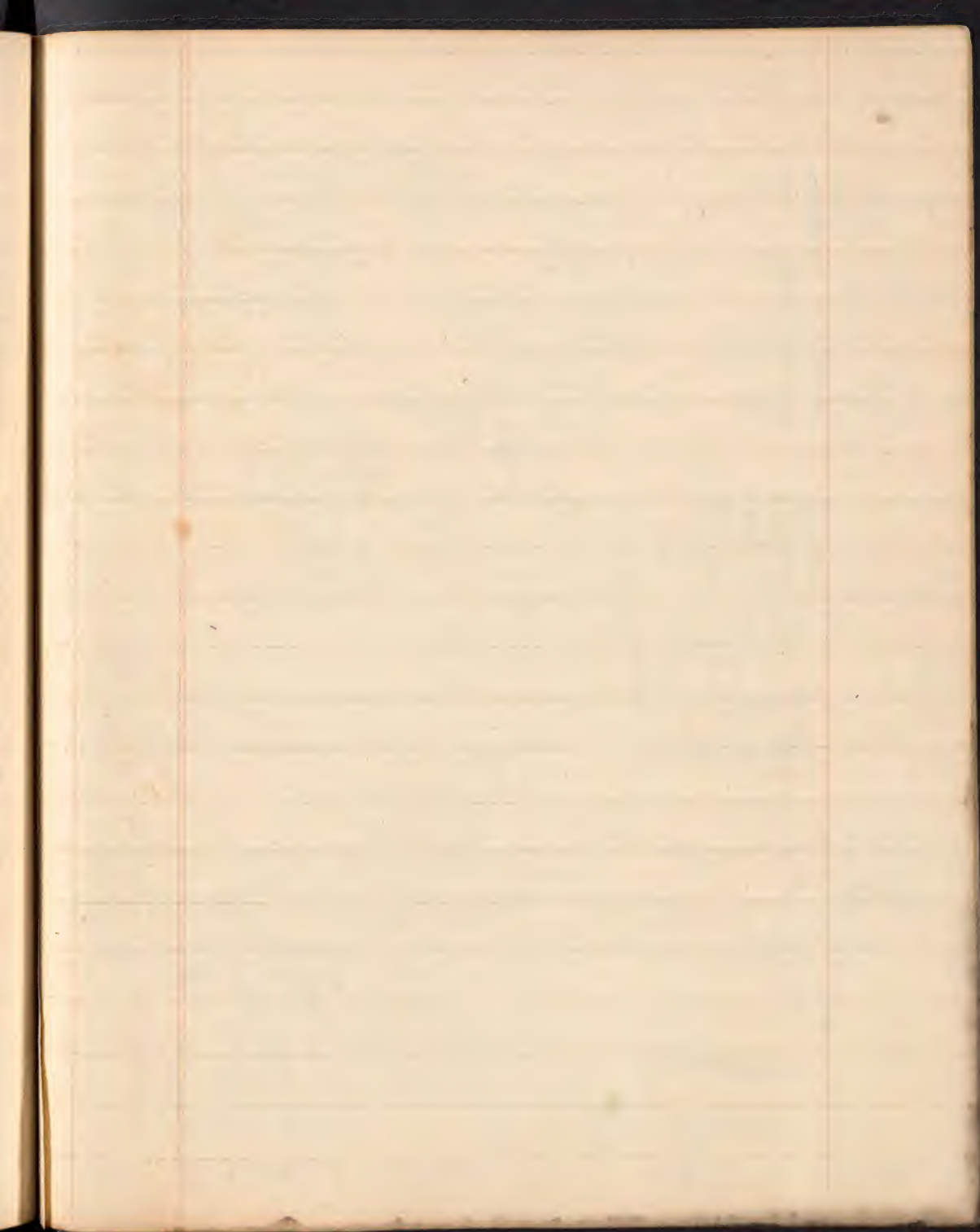












12.930241  
9.317879  
1.806181  
1819081

2) 82.44  
44

34845  
44  
33406  
44

328040  
44  
82.5

2) 167  
44  
403

2) 5009  
1008  
2887  
3892  
2840  
6692

2) 165  
62  
103

1.792592  
3.584784  
9.718291  
13.503075  
3.000005  
302980  
49500

1.806181  
2.111111  
1.444444  
1.444444  
5.655555  
5.111111

2.500000  
2.500000  
5.000000  
5.500000  
8.000000  
10.500000

1.806181  
1.444444  
4.444444  
1.444444  
5.888888  
7.333333

1.20  
62  
2) 182  
91  
800  
72002  
353

3.761443  
4.144444  
5.500000  
5.500000  
5.500000  
5.500000

2) 244  
120

5.204120  
2.079181  
9.478142  
13.761443

160  
2) 8066  
4000

$$\begin{array}{r} 64 \\ 3 \overline{) 199} \\ \underline{180} \\ 19 \end{array}$$

$$\begin{array}{r} 24750 \\ 3960 \\ \hline 420750 \end{array}$$

$$\begin{array}{r} 120 \\ 42 \overline{) 195} \end{array}$$

$$\begin{array}{r} 145 \\ 196 \\ \hline 2156 \end{array}$$

$$\begin{array}{r} 542562 \\ 13560 \\ \hline 778162 \end{array}$$

$$\begin{array}{r} 42223 \\ 32976 \\ 33000 \\ 76713 \\ 68000 \\ 52000 \\ 30800 \\ 176400 \\ 168000 \\ 96000 \\ 1050 \end{array}$$

$$\begin{array}{r} 27225 \\ 27225 \\ \hline 54450 \end{array}$$

$$\begin{array}{r} 27225 \\ 27225 \\ \hline 54450 \end{array}$$

1730



$$\begin{array}{r} 0.6817 \\ 0.0000 \\ 2.9617 \\ 8.4000 \\ 2.5970 \\ 8.54 \\ 6.17 \\ 4.54 \end{array}$$

$$\begin{array}{r} 3.2255 \\ 3.3400 \\ 0.5350 \\ 4.10 \\ 8.25 \\ 4.10 \end{array}$$

$$\begin{array}{r} 9.5573 \\ 8.43 \\ 8.43 \\ 8.43 \\ 1.11 \\ 8.43 \end{array}$$

$$\begin{array}{r} 1.7640 \\ 1.200 \\ 1.47 \\ 2.294 \\ 2.4 \\ 2.25 \\ 2.25 \end{array}$$

$$\begin{array}{r} 9.6000 \\ 8.000 \\ 1.20 \\ 1.40 \\ 1.00 \\ 4.0 \end{array}$$

$$\begin{array}{r} 6.4 \\ 2.98 \\ 4.54 \\ 6.4 \end{array}$$

$$\begin{array}{r} 2.40 \\ 4.0 \end{array}$$

$$\begin{array}{r} 7.7675 \\ 1.085 \\ 3.760 \\ 7.2800 \\ 8.000 \\ 9.1 \end{array}$$

$$\begin{array}{r} 2.182 \\ 6.2 \\ 1.20 \end{array}$$

$$\begin{array}{r} 2.26713 \\ 7.587 \\ 8.43 \\ 9.1 \end{array}$$

$$\begin{array}{r} 2.686 \\ 8.35 \\ 8.00 \end{array}$$

$$\begin{array}{r} 2.222 \\ 6.2 \\ 1.60 \end{array}$$

$$\begin{array}{r} 10.85 \\ 8.6 \\ 9.5 \\ 1.55 \\ 3.5 \\ 2.62 \end{array}$$

$$\begin{array}{r} 2.7520 \\ 4.7 \\ 2.820 \\ 1.60 \\ 4.7 \end{array}$$

$$\begin{array}{r} 1.74800 \\ 3.8800 \\ 0.0000 \\ 0.0000 \\ 1.8000 \\ 4.00 \end{array}$$

$$\begin{array}{r} 2.590 \\ 1.95 \\ 2.20 \\ 1.70 \end{array}$$

$$\begin{array}{r} 2.3400 \\ 4.00 \\ 8.35 \end{array}$$

$$\begin{array}{r} 2.167 \\ 10.3 \\ 6.4 \end{array}$$

$$\begin{array}{r} 1.222 \\ 1.222 \\ 1.222 \\ 1.222 \\ 1.222 \\ 1.222 \end{array}$$

$$\begin{array}{r} 4.86 \\ 6.62 \\ 1.5 \\ 6.4 \end{array}$$

$$\begin{array}{r} 2.3000 \\ 4.00 \\ 8.25 \end{array}$$

$$\begin{array}{r} 2.165 \\ 10.3 \\ 6.2 \end{array}$$

$$\begin{array}{r} 2.2800 \\ 8.00 \\ 9.1 \end{array}$$

$$\begin{array}{r} 1.72000 \\ 4.00 \\ 4.30 \end{array}$$

$$\begin{array}{r} 2.426 \\ 2.20 \\ 2.00 \end{array}$$

$$\begin{array}{r} 1.5000 \\ 8.00 \\ 2.15 \end{array}$$

$$\begin{array}{r} 1.6800 \\ 8.00 \\ 2.10 \end{array}$$

$$\begin{array}{r} 3.8800 \\ 4.00 \end{array}$$

$$\begin{array}{r} 5.800 \\ 4.00 \end{array}$$

$$\begin{array}{r} 2.290 \\ 1.45 \\ 1.70 \\ 1.20 \end{array}$$

$$\begin{array}{r} 2.194 \\ 1.20 \\ 4.0 \end{array}$$

$$\begin{array}{r}
 185 \\
 165 \\
 \hline
 340 \\
 2260 \\
 \hline
 1700 \\
 400 \\
 \hline
 68000
 \end{array}$$

$$\begin{array}{r}
 14 \\
 80 \\
 \hline
 2154 \\
 77 \\
 \hline
 400 \\
 20000
 \end{array}$$

$$\begin{array}{r}
 220 \\
 474 \\
 \hline
 2994 \\
 147 \\
 \hline
 120 \\
 120 \\
 \hline
 437 \\
 400 \\
 \hline
 174800
 \end{array}$$

$$\begin{array}{r}
 74 \\
 120 \\
 120 \\
 \hline
 584 \\
 12100 \\
 \hline
 145200
 \end{array}$$

$$\begin{array}{r}
 80658 \\
 808 \\
 5585 \\
 \hline
 20718 \\
 407 \\
 \hline
 202
 \end{array}$$

$$\begin{array}{r}
 273 \\
 27 \\
 \hline
 242 \\
 29 \\
 \hline
 62
 \end{array}$$

$$\begin{array}{r}
 110 \\
 26 \\
 \hline
 2317 \\
 22 \\
 \hline
 120
 \end{array}$$

$$\begin{array}{r}
 2028 \\
 205916 \\
 \hline
 4074
 \end{array}$$

$$\begin{array}{r}
 200000 \\
 200000 \\
 \hline
 248000 \\
 40000 \\
 \hline
 62
 \end{array}$$

$$\begin{array}{r}
 27118 \\
 27291 \\
 \hline
 27261 \\
 209626 \\
 \hline
 27252 \\
 20235 \\
 \hline
 25 \\
 248
 \end{array}$$

$$\begin{array}{r}
 200000 \\
 200000 \\
 \hline
 200000 \\
 200000 \\
 \hline
 200000
 \end{array}$$

$$\begin{array}{r}
 200000 \\
 200000 \\
 \hline
 200000 \\
 200000 \\
 \hline
 200000
 \end{array}$$

$$\begin{array}{r}
 200000 \\
 200000 \\
 \hline
 200000 \\
 200000 \\
 \hline
 200000
 \end{array}$$

$$\begin{array}{r}
 200000 \\
 1481 \\
 \hline
 468 \\
 32 \\
 \hline
 44
 \end{array}$$

$$\begin{array}{r}
 200000 \\
 200000 \\
 \hline
 200000
 \end{array}$$

$$\begin{array}{r}
 200000 \\
 200000 \\
 \hline
 200000 \\
 200000 \\
 \hline
 200000
 \end{array}$$

$$\begin{array}{r}
 22 \\
 490
 \end{array}$$









120  
62  
1182  
91  
110  
201  
400  
80400

62  
64  
1126  
63  
103  
166  
400  
66400

64  
35  
299  
44  
65  
114  
400  
45800

565  
35  
2825  
1695  
19775  
171  
18025  
576  
1178  
2720  
900  
7176

1514  
400  
60566  
80400  
66400  
45800  
798206  
7176

180  
805376  
43560  
369776  
348480

1514  
1414  
1514

150  
200  
220  
220  
170  
120  
79  
80  
180

97

80  
181  
40  
38

2722  
212960  
190575  
223850  
217800  
6009

2663-17  
243-2  
181-34  
4-2-28

243-2-35 18-1-34 4-2-28

Seal Price as corrected calculation



25.17 5.5.19

81 94.  
66.78 50.19

473.00 478.47  
54.7 3201.59  
3165.00 61.95

849.14 111.74

617 56.5  
842.70 110.90  
05.01 78

647.20 470.20

2379.00 2215.00

177.50 358.90

871.00 273.00

304.20 312.00  
151.75 10.8  
4.05 10.72

6645 31.78  
12420 3.18  
37.73 127.73

$$\begin{array}{r} 2) 4,3560 \\ \underline{21780} \end{array}$$

21780

162

$$\begin{array}{r} 1605 \\ 162 \overline{) 1605} \\ \underline{1620} \phantom{00} \\ 15 \phantom{00} \end{array}$$

$$\begin{array}{r} 24 \\ 24 \\ \hline 48 \end{array}$$

$$\begin{array}{r} 2501 \\ 290172 \\ \hline 02 \end{array}$$





$$\begin{array}{r}
 314 \\
 20 \\
 \hline
 6.26 \\
 5 \\
 \hline
 6.31
 \end{array}$$

$$\begin{array}{r}
 37 \\
 2 \\
 \hline
 2-96
 \end{array}$$

$$\begin{array}{r}
 1079 \\
 1071 \\
 \hline
 608 \\
 601
 \end{array}$$



